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INDEX.

NOTE.—The Index is strictly alphabetical except in the case of "Legal Reports," which are classified under that heading.

A

"A" BOTANICAL BEVERAGE Co., Ltd. 368

Aaron oil 526

Aberdeen Hygienic Institute, Ltd. 255

Aberdeen Pharmaceutical Association 25, (scholarships) 313, 364, 428, 937

Aberdeen School of Pharmacy 73

Aberdeen University Graduates' Club (C.C.) 75

Abortifacients, administering 594

— sale of 491, 698, 700, 769

Absinthe, standard for 682

Acacia, cultivation (Soudan) 130, 260

— exports (Alexandria) 368

Accommodation and convergence, relationship 444

Accounts, paying by cheque 659

See also Bookkeeping

Acetanilid, harmful effects 119

Acetic acid mfr. (Transvaal) 849

— poisoning 249, 516

— standard for 581, 681

Acetic arsenious anhydride 20

Acetone as dry shampoo 842

Acetyl-atoxyl 477

Acetyl-p-aminophenyl-arsenic acid 476

Acetyl salicylic acid, incompatibles 121 (see also Aspirin)

Acids (see specific name—e.g., Acetic)

Acme barrel tilter 650

Aconite poisoning 747

— root, standard 579, 682

Aconitine, Schmidt on 18

"Adaptable" hot-water bottles 281

Administering Poisonous Drugs to Horses Act (see Legal reports)

Adrenalin solution, discolouration (disp. note) 765

See also Suprarenal gland

Adulteration Repression Congress (see International Congress for Repression of Adulteration)

Advance Box Mfg. Co., Ltd. 959

Advertisement charges, recovering (law case) 430

Advertisers and the Press 675

Advertising, Christmas 823

— effect of 594

— handbill 26

— hints on 902

— ideas (visitors' guide) Supp. July 24, (price list) 170, (sheep-dipping) 427, (telephone list) 688, 931

— opinions on (Lever) 844, (Neath-coat) 648

Aerated waters, mfr. (book) 242

Aeronautics Exhibition 333

Aeroplane crosses Channel 169

Æruo, meaning 424

African Entomological Research Committee 361

Agreements, restrictive, enforcing 357

Agricultural chemistry (Wiley's book) 478

— poisons (see Agri-horticultural chemicals)

Agriculture, principles of (book) Supp. October 30

Agri-horticultural chemicals, note on 361

— poisons (Vict.) 847

See also Poison-licences

Alba sulphide 652

Albargin, incompatible 121

Albert Medal award 49

Albright, J. (portrait) 161

Albumen exports, China 186

Alcock, F. H. (on antim. sulph.) 184, 223, (tuition classes) 297

Alcohol, absolute, illegal to make 435

— duty-free, regulations (Germany) 667

— effect in disease 900

— mfr. (books) 390

— use in pharmacy (Dott) 184, 229

See also Spirit

Algieria exports 707

Alkaloidal content of drugs, variability 208

Alkaloids, exports and imports (Germany) 544

— situation in leaves 715

All Fours liniment, what is? 492, 524, 558, 591 ("Xraser" on) 607

Allen & Hanburys, Ltd. (sauerin tablets) 50, (inset) 187, (exhibit) 398, (dispensing-balance) 637, (rusks) 674, (cod-liver oil factory) 844, (sauerin liquid culture) 853, (weighing machines) 891, (Christmas holidays) 951, (spirit-duty) 960, (aseptic dressings) 961

Allen (Stafford) & Sons, Ltd. (outing) 62, (dandelion-root) 637, (herb growing) 805

Allen's "Commercial Organic Analysis" 876

Allinson's food 437

Almanacks (see Calendars)

Almond oil (Sage on) 929, (letters) 977

Almond-sorting machine 666

Aloes, Sicilian 126

— standard for 579, 682

Atopcia areata treatment 560, 734

Alpine herb tea 560

Alum exports, Italy 93

— and tannin gargle (disp.) 388

Aluminium hydroxide detection 662

— preserving 948

Alumocalcite 879

Ambulances Bill 372

Ambulances in London 266

Amenyl 362

American Animal Therapy Co., Ltd. 8, (lymphoid compound) 674

American Chemical Society (pharmaceutical chemistry division) 106

American Dental Mfg. Co. (exhibit) 437

American Druggists' Syndicate 888

"American Journal of Pharmacy," note on 136

American Pharmaceutical Association (programme) 367, 415, 811

American putty 879

p-Amido-phenol developer 766

Amidol developer 125

Ammonia, household 415

— liniment for retail 841

— poisoning 28, Supp. July 10,

Supp. Oct. 16, 833, 884, 941

Ammonia Soda Co., Ltd. (law case) 45, (mortgage) 255, 924

Ammonia-soda process (introduction) 926

Ammonia, standard for 581

— in urine, estimating 340

— washing powder 880

Ammoniated quinine in mixture (disp. note) 915

Ammonium carbonate, lead in 93

— phosphate, assay (Wilkie) 379,

422, 452, 486

Anæsthesia, spinal, Jonnesco's method 783, 806

Anæsthetics, administration by dentists 709

Anæsthetics Bill 48, 114, 266, 285, 446, 709

Anæsthetics, control of 663

— deaths from 785

— legislation suggestions 856

Analgesic cream 335

Analyses as side-line 788

See also Guardians and drug samples

Analysis, books 315

— dry reactions in 38

— preliminary tests 662

— quantitative (book) Supp. October 30

Analyst's appointment (House of Commons' question) 285, (particulars) 314, (H.C. question) 339, 665, 918

Analysts' reports (Accrington) 102, (Beds.) 244, 362, 698, (Berks) 806, (Bermondsey) 329, (Bethnal Green) 329, 458, 665, 885, (Birmingham) 244, (Bradford) 562, (Bristol) 393, (Camberwell) 885, (Cape Colony) 335, (Dalkeith) 596, (Deptford) 362, (Durham) 72, (East Ham) 427, (E. Riding) 170, (Exeter) 562, (Glamorgan) 495, (Gloucester) 38, (Greenwich) 883, (Hackney) 362, 806, (Hampstead) 329, (Herts) 102, (Isle of Wight) 528, (Islington) 362, (Kensington) 102, 883, (Kent) 278, 350, 806, (Lambeth) 244, 277, (Lancaster) 244, 698, (Lewisham) 277, (City of London) 102, 278, 594, (Manchester) 244, (Marylebone) 393, (Merioneth) 845, (Middlesex) 169, 665, 845, (Northants) 72, (Nottingham) 244, (Oxfordshire) 277, (Paddington) 170, 277, (Poplar) 329, 495, 631, 698, (Radnor) 631, (Rotherham) 631, (St. Pancras) 329, 458, (Salford) 631, (Sheffield) 883, (Southampton) 2, 277, 528, 736, (Southwark) 278, (Staffs) 244, 806, (Stepney) 278, (Stoke Newington) 393, (Swansea) 495, (Walsall) 72, 736, (Walthamstow) 427, (Wandsworth) 244, 329, 806, (West Suffolk) 102, (Westminster) 278, (Wimbledon) 362, (Woolwich) 362, 562.

Analytical chemist, education and qualification 309 *et seq.*

Anæsthol 438

"Anatomy and Melancholy," Burton's 931

Andrews, C. M. (death) 283, 603

Andrews, G. G. (bankr.) 7

Angier Chemical Co. (exhibit) 196, 571

Anglo-American Drug Co., Ltd. (Winslow's syrup) 817

Anglo-American Pharmaceutical Co., Ltd. (fire) 102, (exhibit) 196, 571

Anglo-Continental Trading Co., Ltd. 851

Anglo-French Chemical Works, Ltd. 338

Angostura Bitters (Dr. J. G. B. Siegert & Sons), Ltd. 815

Aniline dyes (book) 880

Anise oil, standards for 580, 681, 682

Aniseed exports (Riga) Supp. October 30, (China) 967

"Annals of Pharmacy," note on 136

Anatto tincture 685

Ant proofing 387

Anthion 602

Anthrax, research 235

Anti-cutting (see Price-protection and Proprietary Articles Trade Association)

Antimonium sulphuratum (Alcock) 184, 223

Antimony, organic compounds 971

Antimony sulphides (assay process) 224, (Howard and Harrison on) 184, 224

Antineurasthin Co., Ltd. (inset) 187, 284, (exhibit) 571, (law case) 175, 255

Antipyrin, harmful effects 119

— incompatibles, 121

— trade-mark (France) 4

Antisclerosin 674

Antitoxin, municipal supply 329

"Antwerp Formulary" 894

Apenta springs visited 550

— water, price of 325

Aperient mixture (conc.) 72

Apioil, Codex requirements 105, 886

— standard for 682

Apollinaris & Johanniss, Ltd. (dividend) 45, (meeting) 111, 924

Apollo rubbers 438

Apomorphine, spurious Supp. December 25

Aponia 438

Apothecaries' Act (see Legal reports)

Apothecaries' Assistants Association 714, 718, 749

Apothecaries' assistants ("B. M. J." on) 54, (certificates) 262, (examination described) Supp. July 24, (examinations) 300, (letters) 325, (as dispensers) 946, 978

— and Poisons and Pharmacy Act 49, 54, 57, 87, 98, 132, 241, 262, 289, 325, 356, 386, 694, 714, 718, 732, 749, 756, 801, 978

Apothecaries' Hall in Ireland 700

— assistants' examination 300, (books) 300, 628

— examiners 564

— scientific meeting 700

Apothecary, old reference 361, (old adv.) 596

"Apotheker Zeitung" criticised 498

Apprentice indentures cancelled 958

— premium (inquiry) 733

Apprentices to companies (Ireland) 14, (H.C. deputation) 45, 85, 98, 131, 241, 266, 272, 505, 619, 657

Apprenticeship (Birrell on) 45, 83, (H.C. question) 650, (Truscott on) 589

Apricot-kernel oil 929, 977

Arachis oil (Transvaal) 921

Argentine Agricultural Exhibition 566

Argentine Estates of Bovril, Ltd. (debentures) 255

Arma piston pump 650

Armour & Co. (exhibit) 196, (su-prarenalin) 570

Armstrong Prof. (on ionisation) 402, (on radium) 405

Armstrong College described 244

Armstrong, F. (death) 962

Armstrong, Whitworth & Co.'s Works 180

Army dispensers, particulars 314

— and Poisons and Pharmacy Act 48, 54, 87, 186

— pharmacists (Australia) 249, (France) 352, (Germany) 333, 334, 466, 588, (Clarke on) 685

See also Territorial Army

Arnfield, J. C., & Sons, Ltd. 535

Arrhenal 20

Arrowroot growers (St. Vincent) 485, 762, 912

- Arsacetin 477
 Arsamin, 476
 Arsanic acid 19, 476
 Arsenic, amorphous, preparing 20
 — compounds, organic (Mardale) 19, 120
 — dose 346
 — effect on fowls 526, 558
 — exports (Portugal) 55
 — in drugs (Canadian Bulletin) 367, (U.S. Bulletin) 625
 — poison case (historic) 232, 246, 362, 476
 Arsenic fly-papers, sale of 325
 Arsenic acid 19
 Arsonic acid 19, 120
 Arterenol incompatibles 121
 Arth, M. (death) 171
 Arylarsenate, meaning 19
 Asafoetida, standard for 579, 682
 Ascher's enamel 438
 Ash (Claudius), Sons & Co. (exhibit) 437
 Ashfield, P. J. (personal) 918
 Ashford, chemists in 163
 Ashton, G. F. (death) 707
 Ashton-under-Lyne Chemists' Association 582
 Aspirin patent case (U.S.) 500
 Aspirin (solubility) 591, (trade-mark) 6
See also Acetyl-salicylic acid
 Assistant interrupts meeting 169
 — agreement inquiry 841, 915
 — classed as domestic servants 845
 — demand for 68, 495
 — duties 388
 — effect of P. & P. Act on 649
 — experiences (letters) 453
 — holidays 559
 — hours 885, (resolution) 426, 679, ("Evening Dispatch" on) 920
 — in Canada Supp. August 28
 — in India 730, 840
 — insurance, compulsory (Germany) 468
 — payment during illness 454, 628
 — position of 801
 — ratio of unemployed 206
 — record book (Romania) 6
 — on the Riviera 317
 — scarcity (*see* assistants, demand for *supra*)
 — salaries (Italy) Supp. August 7, 766, (*see also* wages *infra*)
 — situations abroad, obtaining 134, 659
 — with companies 273, 323
 Assistants' Union (Germany) 599
See also National Union of Assistant Pharmacists
 — votes 528
 Assistants' Wages Board (N.S.W.) 74, 396, 532, 702, 847
 — with companies (letters) 132, 241, 273, 323
 Asthma powder, note on 526
 Astrolin 410
 "At the Counter" (*see* Orders, curious)
 Atkinson's soap-stnnnd 432
 Atlas Soap, Oil and Chemical Co., Ltd. (debentures) 891
 Atomic theories 405, (Rutherford on) 402
 Atroxyl 476
 Attfield, Dr. J. (portrait) 150, letter 211
 Auction sale at drug-stores 952
 Australia:
 Commerce Act decisions (Carlsbad salts) 396
 Commerce (Trade Description) Act, regulations 430
 German chemicals in 557
 Patent Bill, objected to 555
 Pharmacy entrance examinations 954
 Poisoning statistics 772
 Proprietary medicine prices 557
 Pure food legislation 702, 809
 Tariff decisions 532
 Trade relations with United Kingdom 557
See also under New South Wales, Queensland, South Australia, Tasmania, Victoria, and West Australia
 Australia:
 Exports, chemical 606
 Pharmaceutical curriculum 317
 Pharmacists' grievances 810
 Pharmacy in Supp. August 7
 Automaton bottle-washer 650

- Averill, J. (portrait) 164
 Aviators, catering for 631
 Axe, Prof. J. W. (death) 962
 Ayrton, Saunders & Co., Ltd. (seidritz powders) 78, (cod-liver oil emulsion) 479, (list) 793, representatives 817, (letter) 882, (debenture) Supp. December 18
 Azol developer 514
- B
- B. & K. OTTO OF ROSE 350
 Bacteriology (book) 715
 Bad legs, treatment 424
 Bayer, Dr. A. von (jubilee) 172
 Bagshaw's "Photo-Micrography" Supp. September 25
 Bailey Mfg. Co., Ltd. 777
 Bain-marie, origin of 711, 781
 Baird & Tatlock (new factory) 2, (debenture satisfied) 466
 Baiss Bros. & Stevenson, Ltd. (dividend) 8, (outing) 62, (inset) 187
 Baker, A. J. E. (death) 673
 Baking-powder, lemon kali as 840
 Balch, R. (sketch port.) 50
 Balkwill, F. P. (death) 743
 Balland's "How to Choose Food" 736
 Bainbridge marine, origin of 711, 781
 Bampton's Cash Chemists, Ltd. 742
 Bandaging (book) 805
 Bandöeng Quinine Factory 912, 965
 Bangor pharmacy sold 594
 Bankruptcies and failures (*see* name of bankrupt)
 Bankruptcy Acts, annual report 291
 — laws (in Scotland) 496, (reform) 899
 Banner, S., & Co., Ltd. (debentures satisfied) 636
 Bannister, R. (death) 535, (will) 925
 Barclay, Sir T. (personal) 245
 Barclay & Co. (New York) (trichophorous) 891
 Barclay & Son, Ltd. (list) 479
 Barger on hydroxyphenylethyamine 185, 229
 Barium soil causes cattle disease 110
 Barker, J. H. B. (death) 503
 Barker, R. W. (patent agent) Supp. November 20
 Barker, T. (death) 636
 Barkola pre-emption 750, 841
 Barks, medicinal (bullein) 514
 Barnes, J. B. (golden wedding) 466
 Barnett, S. (portrait) 155
 Barnett & Co. (cold cream) 691
 Barnett & Foster, history of 155
 Barnett's pink pills (law case) 7
 Barnsley Chemists' Association 721
 Barou, J. S. (death) 256
 Barrett, J. T. (portrait) 582
 Barrett, J. W. (death) 466, (will) 778
 Barrett & Elers, Ltd. (debenture satisfied) 777
 Barratt, F. A. (death and portrait) 569, (will) 708
 Barron, Harveys & Co. 432 (*see also* British Drug Houses, Ltd.)
 Barrowclough & Tatia on hydrocyanine 825
 Burton-Faithfull & Co., Ltd. 111
 Basle Chemical Industry Co. 852
 Bateman, T. H. (will) 78
 Bateman's pectoral drops (note) 405
 Bateson, T. (death) 57
 Bath College of Pharmacy Supp. July 3, Supp. August 7, 297
 Bath Pharmaceutical Association 647, 788, 906, 945, Supp. December 18
 Bayley Co-operative Society, Ltd. 531, 752
 Battery charge 456
 Bausch & Lomb Optical Co. (inset) 187
 Baxter, Sir W. J. (Parliamentary candidate) 884, 920
 Bay rum 980
 Bayer Co., Ltd. (thymosol) 195, (exhibit) 196, 571, (guaiacose) 793, 891
 Beaulieu, assistants at 317
 Beddoe's "Syphilis" (review) 833
 Bee vaccinator 584
 Bee stings for rheumatism 584, 963
 Beecham, H. (presentation) 370
 Beecham, J. (personal) 663, 675
 Beechain's pills (law cases) 284, 338, 399, 450, 776, 813
 Beer, brewing 423
 Beeswax (Abyssinian) 572, (German E. African) 485, (O.R.C. regulations) 566
 Beetham, M., & Son (show-card) 961
 Beetle powders 389
 Beiersdorf & Co. (plasters) 433, (leukoplast) 570
 Belfast Technical Institute 394
 Belfast University appointments 40
 Belhatchet, F. S. (diamond wedging) 854
 Bell, J. (death) 568
 Bell, J. T. (bankr.) 814, 850
 Bell & Croyden, Ltd. (exhibit) 571
 Bell, Hills & Lucas, Ltd. (unguent) 27, (C. & D. Jubilee) 272, (mortgage) 777, (totil skin preparation) 961
 Bell scholarships (*see* Pharmaceutical Society of Great Britain)
 Belladonna berries, poisoning 371
 — as galactagogue 471
 — extract dose 346
 — in cathartics, use of 420
 — plasters, position in poison-schedule 591
 — poisoning Supp. September 4, 427, Supp. October 16, 793, 833
 Belshers, Ltd. 502
 Benevolent Fund (*see* Pharmaceutical Society of Great Britain)
 Benger's Food, Ltd. (dividend) 567
 Benger's food, for animals 570
 Bengazi, demand for drugs 123
 Bennett, C. T., on essential oils 426, Supp. October 30, 736, 768, 806, 845, 882, 918
 Bennett, Sons & Shears, Ltd. (exhibit) 650
 Bentley, J. N. (death) 466, (will) 816
 Bentley, J. & Son (Horsforth), Ltd. 636
 Bentley, T. (personal) 769
 Benzine licence 19, 33, 40, 53, 67
 — as hair-wash (H.C. question) 650
 — sale of small quantities 539, 685, 688, 709, 713
 Benzontized oil 326
 p-Benozo-aromatic acid 476
 Benzol duty (France) 247
 — inhalant (dispensing) 325, 357
 Benzoline, sale in small quantities (*see* Benzinc)
 Benzosol, incompatibles 121
 Benzyl-aromatic acid 121
 Bergamot oil (Umney on) 411, (guaranteed) 432, (Simmons on) 437, (Umney) 522, 557, (standards) 580, 591, 681
 Bergen trade 350
 Berkefeld Filter Co., Ltd (exhibit) 71, 650
 Berlin, British Consul at 610
 Berlin Pharmaceutical Institute (report) 286
 Berliner, A. (rubber prices) 345
 Berset shaving-brushes 637
 Best, (Helen), Ltd. (debentures) 891
 Beverages (containing cocaine) 888, (ethers in) 468
 Beveridge, J. (dentist) 9
 Bewley & Draper, Ltd. (right-of-way dispute) 73
 Bibbys (Birrley) Ltd. 567
 Bibler, A. (exhibit) 437
 Bifoal lenses 652
 Biggs' Fluid Glenovis dip 335
 Bile bean law cases 172
 Binot, Dr. J. (death) 846
 Bio-chemical tests (Martin) 184, 213, (Haynes on) 215
 Bipsine, Ltd. 431, 636
 Bird, A. E. (bankr.) 890
 Bird-ailments 480
 — food 134
 Birkenhead & Wirral Association of Pharmacists 684, 788, 936
 Birkett, J. R. (Mnyor) 744
 Birley's phosphorus 673
 Birmingham Chemists' Association (*see* Midland Pharmaceutical Association)
 Birmingham College of Chemistry, 297
 Birmingham Dental Supply Co. (exhibit) 438
 Birmingham hygienic exhibition 563
- Birmingham University (Chemical Laboratories) 595, (degrees conferred) 426, (degree day) 631, (library) 426, (pharmaceutical education) 615
 Births (*see* Weekly contents)
 Bisabolene 901
 Bishop, F. (death) 778, (will) 962
 Bismuth exports (La Paz) 396, (N.S.W.) 485
 Bismuth mixture, effervescent (disp. note) 979
 Bismuth salicylate (Harrison on) 184, 225
 — and pot. iodidi mixture (dispensing) 388
 Blackbeetles, exterminating 486, 492
 Blackberry syrup 685
 Black draught fatality 462
 — origin of 115
 Black-leg preventive 591
 Black seab in potatoes 361, 458
 Black Sea Oil Fields, Ltd. 284
 Blackwash, new formula 241
 Black-water in sheep (remedy) 766
 Blaekie, R. (new works) 198
 Blackpool & Fylde Pharmacists' Association 756, 907
 Blake, E. (death) 256, (will) 372
 Blane de perle 766
 Bland & Co., Ltd. (mortgage) 255
 Blaxter, A. P. (portrait) 156
 Bleaching, electric 730
 — powder (*see* Chlorinated lime)
 Bleeding from gums, treating 347
 Blister, veterinary 734
 Blood (book) 758
 Blood-purifying tea 560
 Bloomer, Fletcher & Co., Ltd. (receiver) 45
 Blount's Medical Aid Society, Ltd. (receiver) 636, 672
 Blue pill and black draught, origin 115
 "Blue Spot" pin-teeth 438
 Blyth's "Foods: Composition and Analysis" (review) 478
 Boake, Roberts & Co., Ltd. (directors' votes) 54, (exhibit) 651
 Board of Agriculture circulars 38, 86
 BOARD OF TRADE:
 Commercial Intelligence Department 698
 Exhibitions department 118
 Returns (June) 55, (July) 289, (August) 442, (September) 609, (October) 759, (November) 896
 — classification (H. C. quest.) 506
 Bodie, "Dr." Supp. November 6, 737, 738, 770
 Bodie's liniment 737
 Boelter's "Rat Problem" 124
 Boil powder 766
 Boiler incrustation preventives 526
 Bolton Chemists' Association 611, 792, 936
 Bolus, G. (personal) 394
 Bolus, Dr. H. (medal) 667
 Boncheff & Kidoff's agents 196, 350
 Bookkeeping (book on) 805, (advantage of) 947
 See also Accounts
 Book-worm remedy 372
 Books for students 314
 See also name of author and subject
 Boot, Sir J. (portrait) 745, (appreciation) 816, (personal) 927, 980
 Boot-cream basis, 372
 — preservative and softener, 802
 Booth, H. (portrait) 547
 Boots Cash Chemists' (Eastern), Ltd. (meeting) 8, ("Xrayser" on) 15, (letter) 67, 83, 99
 Boots Pure Drug Co., Ltd. Supp. December 18
 Boots, Ltd. (syphon trade) 2, (outing) 62, (Kingston branch) 103, 594, (window smash) 104, (Newark branch) 432, (Ripon branch) 432, (theft from) 458, 736, (band contest) 528, (burglary) 528, (window show) 698, (branch) 768, Supp. December 18, (Kingston shop) 961
 Boots, brown, dyeing black 660
 Boran freekle cream, 27
 Borax in mixture (dispensing) 493, 525, 559

Borax production (Turkey), Supp. August 7
 Bordas, Dr. F. (portrait), 639
 Bordighera, assistants at 317
 Boric acid (lead in) 93, (Leghorn exports) 854, (standard) 581
 Botany, books on 314, 413, Supp. September 25, Supp. October 30, 342, 876
 — and pharmacognosy (book) 236
 — elementary (book) 413
 — history (book) 876
 — literature of ("Xrayser" on) 819
 Bottle-washing machines 650
 Bottomley's "Successful Salesmanship" 188
 Bottone, S. R. (death) 387
 Boulton, Jas. & Co., Ltd. (charge) 8
 Bourne, Johnson & Latimer (history) 162
 Bournemouth Pharmaceutical Association 686, 828
 Bourville chocolate, 572
 Bourrillier, M. (murder), 365, 395
 Boucault, L. (death) 428, 460
 Boyril, Ltd. (bonus scheme) 432, 604, (exhibits) 571, 651 (show-card) 637, (flags) 708, (reception) 736
 Bow's Liniment, Ltd. 8
 Bowen, J. W. (will) 256
 Bowman prizes, particulars 314
 Boyd, S. P. (personal) 459
 Boyle, J. (death) 892
 Bradford Chemists' Association, 350, 582, 648, 723, 788, 866, 905
 Bradley & Bliss, Ltd. 742
 Brady, H. B. (note on) 10
 Brady, H. (portrait) 149
 Brady & Martin, Ltd. (described) 10
 Brand & Co., Ltd. (exhibits) 72, 571
 Brass blacking 980
 — flux 4-4
 — lacquer, 696
 Breinl, Dr. A. (appointment) 334
 Brewers' Exhibition 650
 Brewing beer, principles of 423
 Bridgewood, W. S. (death) 369, 393
 Brighton Association of Pharmacy 583, 607
 Brighton Technical College, Supp. October 9
 Brilliantine, separable, 880
 Bristol, T. F., & Co., Ltd. (travelers) 70
 British Association (Sheffield preps.) 2, 376, 402, (President's address) 405, 488, 524
 British Automatic Aerators, Ltd. (exhibit) 437, (liquidation) 602, (exhibit) 650
 British Columbia Pharmaceutical Association 5
 British Diamalt Co. (diastase value of diamalt) 195, (exhibits) 437, 571, ("B. M. J." on) 853
 British Drug Houses, Ltd. (new premises) 232, (chemists' specialties list) 350, (list of specialties) 370, 432, (new premises) 604, (c.l.o. emulsion) 708, (spirit-duty circular) 908, (Christmas holidays) 951
 British Dyewood and Chemical Co., Ltd. (annual meeting) 285, (capital reduced) 502
 British Grit Co., Ltd. 535
 British Health and Teeth Institute, Ltd., 465
 "British Journal Photographic Almanac" (review) 853
 British Malt Products Co. (exhibit) 437
 British Medical Association 71 (annual meeting) 73, 170, 196, 263, 698
 British North Borneo trade 23
 British Optical Association 312, 329, 663
 British Oxygen Co., Ltd. (debentures) 602, Supp. December 18
 BRITISH PHARMACEUTICAL CONFERENCE (papers) 39, (excursion guide) 79, (executive meeting) 81, (papers) 82, 123, (foundation) 150, (Cambridge invitation) 169, 231, (President's address) 183, (papers) 184, (President) 199, (reception) 200, (address) 201, (annual report) 212, (financial statement) 212, (papers) 213, ladies' group) 218, 263, (souvenir) 219, (delegates) 219, (dispensing discussion) 219, (social

side) 218, (attendees) 231, (new President) 231, (excursion) Supp. July 31, (group portrait) 250, (reception) 255, (President's address) 257, (dispensing discussion) 258, (delegates) 263, (dispensing discussion) 279, (financial statement) 287, (dispensing discussion) 324, (delegates) 361, (photo group) 466, (Cambridge meeting) 518, (executive meeting) 578, (local executive) 594, (executive meeting) 893, (commercial section) 931, 958, (research list) 966. *See also* Newcastle.

BRITISH PHARMACOPEIA:

- Canada claims representation 81
- Commentary 581
- Discussion 829
- Grier on 789
- Pharmacists' position 183
- Report 856
- Revision 183, 207, 826, 895

British Radium Corporation, Ltd. (debentures) 707, 891

British Sure Seal Co., Ltd. 77

British Turpentine Corporation, Ltd. 399

British trade (see Board of Trade)

Britonian brush 189

Brixton School of Chemistry 297

Bromine production (U.S.) 32

Bromoil process (book) 124

Bronchitis mixture 842

Bronnley, H., & Co., Ltd. (inset) 187, 779, (chatelaine case) 794, (shaving-soap case) 817

Bronze paint 372

Brooke bottle-washer 650

Brooks, Ald. J. (presentation) 708

Brooks, Chas. (Hudnut's preps.) 78

Brooks' Stores, Ltd. 636

Brothwood, H. S. (entertained) 396

Brough, J. C. (portrait) 149

Brough, L. (death) 743

Brown, Dr. A. C. (presentation) 771

Brown, J. H. (death) 112

Brown, T. L. (death) 91, Col. Supp. July 17, (will) 337

Brown, V. (death) 256, (will) 578

Brown, W. (appointment) 564

"Brown scale" on currants 86

Bruce, Green & Co., Ltd. (exhibit) 571

Brucine and strychnine separation 185, 228

Brunner, Sir J. T. (personal) 569

Brunner, Mond & Co., Ltd. (inset) 187, (dividend) 707, (new estate) 768, (history) 926

Brussels Exhibition Supp. December 18

Bryan & Spedding, Ltd. (debenture) 502

Bryce, T. H. (appointment) 428

Buchheister's "Handbuch der Drogen-Praxis" (review) 478

Bucklersbury, former druggists' quarter 471

Buckley's trieresol-formalin solution 438

Buda Pesth Medicoal Congress 400

Budget (see Finance Bill and Spirit duty increase)

Buisson Frères perfumery 188

Bulgarian health chocolates 637

Bull, W. R. W. (deed of arr.) 7

Bundoran Medical Hall, Ltd. 814

Bunster's "Nervine," origin 272

Burch, T. W. (bankr.) 924

Burge, Warren & Ridgley, Ltd. (rubber prices) 345

Burgess, F. A. (death) 369, 371

Burgess, H. E. (appointment) 370

Burgoyne, Burbidges & Co. (additions to factory) 638, (pensions) 868

Burgundy mixture 35

Burleigh, J. C., Ltd. (debentures) 707

Burroughs Wellcome & Co. (developing table) 27, (exhibit) 38, (ionio tabloids) 50, (exhibit) 71, (air-ship medicine chest) 78, (ex. diploma) 90, (exhibit) 102, (exhibit) 196, (exhibit) 238, ("Photo. Facts and Fallacies") 253, (stocktaking) 281, (Frankfort Exhibition) 333, (Rheinexhibit) 370, (exhibit) 398, (exhibit) 400, (exhibit) 429, (Esperanto booklet) 432, (exhibit) 438,

(journalism book) 504, (exhibit) 514, (aviators' first aid) 537, (exhibit) 571, (donation) 594, (H.C. medicine chest) 650, (tyramine) 673, (exhibit) 768, (ozobrome tabloids) 817, (Photo. Club) 882, (award) 891, (dance) 905, (Christmas holidays) 918, (antarctic expedition) 928, (Christmas holidays) 951, (First-aid case) 960

Burrus, R. W. (death) 503, (will) 778

Burton's "Anatomy of Melancholy" 931

Bury, J., Ltd. 924

Bush, W. J. & Co. (history) 156, (inset) 188, (herb crops) 319

Business, buying 389, 491, (book) 980

— commission (law case) 500, 540

Business Exhibition 651

— for sale (letter) 34

— knowledge (Holden on) 168, 341, (book) 646

— profits, 559

— prospects (letters) 34, 67

— sale, responsibility for debts 765

— selling 787

— transfer agreement 454

Butler & Tanner (inset) 188

Butter perfume 879

Butterfield's soothing teat 432

Butyl-chloral mixture (dispensing) 525

Buvo, Ltd. (beef-tea) 50, (exhibit) 432, (report) 817

Buying a business (letters) 34, 67, (valuation) 491, (book) 980

Buying and selling (Jay Mack on) 348

Byrolin face-cream 333

C

C. C. PERFUMES 187

Cabbage pickle 424

Caeodylic acid 19, (poisonous) 121

Cadbury Bros., Ltd. (summer party) 25, (exhibits) 72, 571, (libel action) 845

Cade oil (etymology) 424, (standard) 580

Caffeine, dose, 346

Callihill's "Reprints" (book) 646

Cakes, recipes for 840

Calcium carbide exports (Gothenburg) 563

Calcium chloride solutions, freezing point 592

— detecting traces of 662

— lactate mixture 492

— salts, lead in 93

— sulphate, testing for 804

Calculations (books) 315

Calculi, intestinal 105

Caledonia Springs Co., Ltd. (exhibit) 571

Calendars, chemists' 479, 504, 570, 930, Supp. December 25

California fig syrup trade-mark (law case) 703, 775

Californian Petroleum Refineries, Ltd. (mortgage) 358

Callard & Co. (exhibit) 571

Calomel, preparing 480

Calorimeters (Coste on) 729

Calves' husk mixture 492

Calxine filling 438

Cambridge Pharmaceutical Association 169, 516, 648

Cameron, J. (presentation) 564

Cammack, J. F. J. (bankr.) 601

Camphor, Ltd. (legal notice) 636

Camphor, artificial (see synthetic *infra*)

— distinguishing natural and synthetic 21

— exports (China) 834

Formosa (yield) 129, 130, (monopoly) 811

naphthalin 372

— production (China) 762

— synthetic, distinguishing 21

factory at Tainionkoski 360

— poisoning 350

to powder 948

Camphorated oil, analysis 244

— synthetic 732

Camphylene Co., Ltd. 742, (new offices) 892

Canimal, Ltd. (report) 852

CANADA:

- Chemical Mfg. Co. (amalgamation) 531
- Cocaine sales 106, 531

Company-pharmacy (law-case) 956

Inland Revenue Bulletin 367

Pharmacy Act cases 106

Trade, hints (book) Supp. September 25

See also British Columbia, North-west Territories, Ontario and Quebec

Canadian Medical Council, proposed 848

Canadian Pharmaceutical Association 367, 414, 439

Comaries, colic fever in 916

Cancer research fund, 959

Cannabis indica, bio-chemical tests 213

Cannes, assistants at 317

Cannon Street, historical note 541

Cantharides hair-wash and poison-schedule 559

— standard for 579, 682

Cap Martin, assistants at 317

CAPE COLONY:

- Agents' licences 397
- Analyst's report 335
- Botany instruction 887
- Chemists licensed 365, 461, 499, 887, 955
- Cigarette stamp-tax 772
- Colonial Medical Council 633
- Colonial Pharmacy Board 633
- Commercial travellers' licences 887
- Medical and Pharmacy Act, amending 633
- Northern District Chemists' Association 365, 532, 772
- Pharmacy Act cases 461, 739, 772, 921
- enforcing 280
- Pharmacy Board 248, 280, 461, 887, 921
- Proprietary medicine defended 41
- tax 6, 75, 106, 248, 667, 739, 772, 810, 955
- Register, compiling 248
- Stamps and Licences Bill 848, 887, 997, 955
- Traders' licences 848
- Capillarity, changes produced by 825
- Capsicum liniment 560
- ointment (C.F.) 517
- Caraguata, Ltd. (receiver) 175
- Caraway oil, standards for 580
- Carbol sheep-dip 651
- Carboxy-acid poisoning Supp. July 10, Supp. July 17, 126, 170, 246, 279, 350, 362, 371, Supp. September 4, 427, 467, 516, Supp. October 2, 584, 651, Supp. October 30, 710, 793, 854, 941, Supp. December 25
- sale of 35
- standard 581
- Carbon, atomic weight 903
- bisulphide, purification 35
- remover 36
- tetra-chloride, hair-wash fatality 90, (H.C. question) 285, 339, 344, 363, Supp. September 4, 528, 563, 595, (H.C. question) 605, 632, 646, (H.C. question) 650
- Carbonic-acid gas cylinder fatality 278
- Carboy-colour, red 592, 627
- Carboys, origin of 5-4
- Card-index (book) 646, (systems) 651, 940, 963
- Cardamoms, Ceylon production 130
- Cardiff Pharmaceutical Association 684, 828, 907, 972
- Carless, Capel & Leonard (agents) 570, (Petroleum Committee) 594
- Carlbad salts, sale (Australia) 396
- Carmine solution 685
- Carnation perfume 880
- Carnegie Trust 879
- Carr, Percy (portrait) 611
- Carramon, Ltd. (winding-up) 672, 742
- Carré's "Manufacturer of Pharmaceuticals" 332, 832
- Carteighe, M. (portrait) 150, 151
- Carter, R. W. (death) 852
- Cascara, fluid extract (Symes on) 184, 226
- (Henkel on) 514
- Cascin, Ltd. (exhibit) 437
- Cass Technical Institute Supp. September 18
- Cassel Cyanide Co., Ltd. (dividend) 777, (report) 851, (meeting) 930
- Cassia, ash standard 682

Cassia oil, standard 580
 Castell-Evans, J. (will) 503
 Castner-Kellner Alkali Co., Ltd. (report) 777, (meeting) 867
 Castor oil (Sage on) 929
 Castorum auctions 943
 Cattle-inflammation mixture 733
 — sprain lotion 134
 — "yellows" in 880
 Catto, A. (presentation) 503
 Caudery, W., & Co. (creditors' meeting) 777, 850
 Caulks' petrolatum cement 438
 Caustic-soda wash 86
 Celluloid manufacturer (France) 410, (Japan) 335, (Japan) 365
 Central Roumanian Petroleum Co., Ltd. 285
 Central School of Pharmacy 299
 Century bottle-washer 650
 Cerium mixture 696
 Certificates of Qualification ("Krauser") on 115, 116 (ed.), (Bell on) 131, (copying) 133, (exhibition by company) 133, 274, (exhibiting) 325, (inquiry) 491, (exhibiting) 679, (non-display) 822, (Gifford on) 868, 948
CYANIDE:
 Drug cultivation 450
 Trade returns 462
 Chalk, G., & Co. (exhibit) 438
 Chamber of Commerce (*see under name of city*)
 Chamois leather, bleaching 696
 Champion bottle-washer 650
 Chance & Hunt, Ltd. (London office) 862
 Change-ringing case 38
 Charles II's last illness 373
 Chater, E. M. (death) 892
 Cheavey, W. F. (death) 603
 Cheavine Filter Co., Ltd. (hot-water bottles) 281
 Chесеман, Е. (death) 892, (will) 962
 Cheltenham Chemists' Association 178, 721, 866
 "Chemical Annual" 877
 "Chemical Gazette" (note on) 136
 Chemical equations (books) 758
 — lectures by pharmacists 766
 — novelties (book) 805
 Chemical Society 680, 736, 825, 903, 971
 — symbols, misuse 403
 Chemicals, arsenic in (U.S. Bulletin) 625
 — standards 681
CHEMIST AND DRUGGIST:
 Advertisers 155
 Appreciations 563, 627, 659, 732, 801, 841, 879, 914, 947, 979
 Coloured Supplement founded 141
 — criticised 979
 Early contributors 148
 Editors 149, 152
 Exchange column founded 153
 Founders 137
 History of 135
 Insets, origin 154
 Jubilee number 135, 257, 272, 323, 340, 361, 371, 410, 475, 509, 515, 558
 Origin 25
 Photograph of staff 166
 Publishers 152
 Semi-jubilee souvenir 154
 Series of books 152
 "Chemist and Druggist of Australasia," foundation 142
 "Chemist, The," note on 136
 Chemist and druggist's business, What is? 357
 — qualification, to obtain 134
 — range of knowledge 15
 — use of title by company 765
 Chemists' business profits 387
 — as business men 658, 695
 "Chemist's Medical Dictionary," appreciation 555, Supp. November 20
 Chemists as public men 9, 113, 171, 263, 503, 564, 569, 595, 596, 603, 604, 632, 637, 664, 666, Supp. October 30, 699, 700, 701, 708, 737, 744, 770, 771, 779, 816, 845, 846, 854, 892, 893
 — why unpopular 51
 Chemists' assistants (*see Assistants and Apprentices*)
 Chemists' Assistants' Association 24, 550, 612, 649, 686, 723, 756, 832, 867, 939, 972

Chemists' co-operative wholesale (bonus distribution) 238, (Christmas holidays) 951
 Chemists' Defence Association, Ltd. (report) 24, (meeting) Supp. July 10, 458
 Chemists' Dental Society suggested 241
CHEMISTS' AND DRUGGISTS' DIARY: (appreciation) 114, (history) 143, 144, (ed.) 782, 904, (appreciation) 955, 966, (competition) 966
 Chemists' and Druggists' Society of Ireland 685
 Chemists' organisation, deficient (letter) 626
 Chemists' Sundries, Ltd. (pneumatic holdfast soothers) 432
 Chemistry, advances in (books) 236, Supp. October 30
 — agricultural (books) 478, 948
 — analytical (books) 124, 876
 — elementary (books) 581, Supp. October 30
 — forensic (book) 646
 — foundations of 790
 — general (books) 315, 758, Supp. September 25
 — industrial (book) 124
 — inorganic (book) Supp. October 30, 715, 805
 — organic (books) 236, 477, 478, 876
 — pharmaceutical (Oesterle's book) 286
 — physical (book) Supp. September 25
 — practical (books) 477, Supp. October 30
 — principles (Ostwald's book) 478
 — reference works 916
 Cherry laurel water, dose 346
 Chesebrough Mfg. Co. ("Vaseline and Its Uses") 238
 Chewing-gum prosecution 255
 Chicle exports (Vera Cruz) 45
 Chilblain liniment 952
 Children's eyesight (*see School children*)
 China root exports 286
 Chloral hydrate, dose 346
 — duty 435
 — linctus 372
 — poisoning 126, 279, 371, Supp. October 30
 — standard 581
 Chlorodylene poisoning Supp. October 2, 793, (veterinary) 492
 Chlorophore deaths 245, Supp. October 30, 793
 — purity of 785
 — toxicity 900
 Chloroxyline 126
 Chocolate syrup 685
 Cholera, precautions 460
 Christian science, discussion 749
 Christmas advertising 823
 — holidays 918, 951
 Christy, T., & Co. (wolfat and boran freckle cream) 27, (rose-pots) 238, (glyco-thymoline) 438, (exhibit) 571, (winter lines) 748, (Christmas holidays) 951
 Churchyard, R. L. (will) 9
 Cinchonydine racemosum (Finnemore on) 184, 216
 Cinchona, African variety 4
 — alkaloid, researches 130
 — analysis (Java) 624
 — uniformity wanted 751
 — Java combine 354, 751, 785, 834, 965
 — fungoid disease 747
 — report (Java) 130, 246, (Madras) 417, 834
 — planters' agitation (Java) 751
 — standard 579
 Cinematograph Bill 339, 372, 401, 538
 — for teaching chemistry 770
 Cinnaforn tablets 891
 Cinnamon, wild bark 278
 — oil (Seychelles) (standard) 681
 Citric acid mfrs. (complaint) 53, (in Italy) 53, (lead in) 93, (analytical results) 968
 — materials, price of 355, 933
 Citronella oil, Malayan 21
 Citrus products (letter) 33
 City and Guilds of London Institute 310
 City Mineral Water Co. (Liverpool) Ltd. 399
 Clague, T. M. (port.) 12, 209
 Clapp, R. J. (murdered) 565, 568, 634
 Clark, J. A. (lepidoptera sold) 699, 882
 Clark, S., & Co. (exhibit) 650
 Clark's fountain spittoons 438
 Clark's Salesmanship Book Dept. (inset) 188
 Clarke, H. R. (deed of arr.) 174
 Clarkson's coughbals 567
 Cleghorn, G. R. (portrait) 633
 Clerget's sugar estimation process 802
 Clerical, Legal, and Medical Stores, Ltd. 707
 Cleworth, J. (photographs) 251, 350
 Clinical Research Association, Ltd. Supp. December 18
 Clock oil, what is? 523
 Cloudy ammonia 415
 Clove oil, standard for 580
 Cloves, cultivation experiments 13
 — Zanzibar crop 450, 474, 485
 Cloves and Coleman's "Practical Chemistry Part II," (review) 477
 Cobb, J. V. (death) 112, (will) 578
 Coco cultivation (Peru) 834
 — standard for 579, 682
 Cocaine in beverages 888
 — dose 346
 — and hyd. perchlor. (dispensing) 765
 — importation (Turkey) 599
 — poisoning 279
 — sale (U.S.) Supp. August 7, (prosecution) 651, (Liverpool) 769
 — smuggling (Bombay) 396
 — substitutes prohibition (India) Supp. December 18
 Cocaine, use declining 19
 Cockroaches, remedies 389, (coal-mines) 455, 486
 — exterminating 492
 "Cocksure," etymology of 509
 Cocoa butter (Cowie and Brander on) 184, 227, (Sage on) 929
 Coconut oil, deodorising 802, 980
 Cod-liver oil for animals 2, 914
 — emulsion (flavour) 685, 900
 — imitation 628
 — iodised 558
 — Japanese 480
 — phosphorised 358
 — St. Pierre 555
 — standard for 579
 Codeine, dose 346
 Coffee, caffeine free, Supp. August 14, 571
 — essence flavour 326
 — extract, to preserve 326
 — fluid glycerate as vehicle 416
Cochlearia autumnale, to exterminate 450
 Cold in the head, cause 900
 Cold weather effect 460
 Coleman & Co., Ltd. (outing) 24, (Wincarnis) 78, (Wincarnis cup) 238, (Wincarnis) 515, (exhibit) 571, (exhibit) 651
 Coleman's, W., Ordinary Shares, Ltd. (debentures) 77
 Collie, Prof. N. (lecture) 647
 Collins, J. H. (Mayor) 744
 Cologne Perfumery Co., Ltd. (receiver) 77
 Colonial Exhibition 667, 739, (postponed) 887
 Colonial Office, Medical Advisory Committee 631
 Colour blindness 652
 Colouring medicines 685
 — foods (France) 953
 Combined Gold Process Syndicate, Ltd. 742
 Combined toning and fixing bath 242
 Comet Chemical Co. (exhibit) 437, 515
 Commercial instruction course (U.S.) 811
 — traveller's commission claim 430
 — hours of call 385, 422, 453, 490
 — how to treat 28, Supp. July 17, 233, 445, 468, 522, 524, 801
 — licences (*see name of country*)
 — samples (Australia) 396
 — women as 736
 Commissions to chemists (early reference) 781
 Companies Act (book) Supp. September 25
 Companies and P. & P. Act 915
 Company apprentices (*see Apprentices with companies*)
 Company assistants (*see Assistants with companies*)
 Company-pharmacy in Ireland 14, 131, 241, 266, 272, 434, 505, 619, 657, (in Canada) 956
 — legislation suggested (N.Y.) 367
 — in United States 888
See also Poisons and Pharmacy Act
 Compensation amalgam 438
 Composition essence 68
 — powder (use of) 930
 Conduit, F. A. (agency) 748
 Condyl, H. J. B. (portrait) 157
 Condyl & Co. (history) 156
 Condyl's fluid, history 156
 Confectioners' Exhibition 437
 Confectionery (books on) 715, 802, 880
 Congreve's liniment 591
 Conium, standard for 682
 Conoid Co. (conoids) 570, 807
 Cousol Aerators 650
 Constipation, food in 900
 Consul Automatic Aerators, Ltd. (debentures) 777, 815
 Consumption (*see Tuberculosis*)
 Contracts (*see Guardians*) *also weekly contents*
 Convergence and accommodation, relationship 444
 Conyngham, W. B. (personal) 178, 364
 Cook, A., & Co. (rubber goods) 113, 350, 403
 Cook, E., & Co., Ltd. (carnival prize) 2, (Female Aid Society) 245, (social evening) 664, (Christmas soap) 817, 854
 Cook, G. R. (deed of arr.) 707
 Cooper, G. J. (death) 605
 Cooper, R. (death) 778
 Cooper's sheep-dip in Ireland 104
 Co-operative Co.'s profits 632, 665
 — pharmacy (France) 565, 880
 — proprietaries (*see Proprietary articles*)
 — trading, combating 666, 752
 Copainiba, standard 579
 Oil, standard for 580
 Copaque Copper Sulphate Co., Ltd. (debentures) 431
 Copper sulphate imports (France) 129, (Oporto) 485
 — manufacture at Bordeaux 129
 — as tuberculosis cure 497
 Copying-pad, ink for 880, 980
 Copyright, registration 391, 947
 Coral, composition 592
 Corbyn, Stacey & Co., Ltd. (exhibit) 571
 Corcoran, J. (creditors' meeting) 3
 Corder & Co., Ltd. 8
 Coriander oil constituents 901
 — standard for 580
 — seed, ash-standard 682
 Cork branding 433
 Corn-cure, ancient 471
 — paints, popular in Edinburgh 460
 — solvents, danger of 562
 Corner for Students (*see Students' Corner*)
 Coronar and sale of poison 769, 833, 844
 Coroners' committee 87, 114
 Corpulose, what is? 455
 Corrizo Extract Co. (vanoleum) 748
 Corrosive sublimate (*see Mercury perchloride*)
 Corstopitum, photo 251
 Cory, J. H. (death) 112, (will) 503
 Cory Bros., Ltd. 502
 Cosmo Chemical Co., Ltd. (debenture) 45
 Cotton, micro-organisms 827
 Cottonseed oil, Trieste imports 130
 Cottrell & Co. (exhibit) 438
 Cough-mixture (conc.) 72
 — children's 628, 685
 — syrup without opium 526
 Counter orders (*see Orders, curious*)
 — prescribing (*see Prescribing chemists*)
 County Court cases (*see Legal reports, general*)
 — procedure 388
 — Guide (book) Supp. August 14
 Cow abortion, serum 113
 — drink 734
 — lameness 455
 — murrain powder 802
 — poisoning case 104

Cow, abortion in 100
Cowie and Brander on cocoa butter 184, 227
Cowie and Broadbent on refractometric indices 185, 227
Cox, A. H. (note on) 157
Cox, A. H., & Co., Ltd. (outing) 90, (history of) 157, (lactated-iron tablets) £04, (massolettes) 537, (exhibit) 571, (massolettes) 604, (massolettes show-card) 673, (staff dinner) 831, (massolettes) 853, (cinnaforn tablets) 891, (massolettes) 891, (calendar) Supp. December 25
Cox, H. W. (personal) 779
Cox's pills, origin of 157
Coxeter Sons (fire) 330
Craig, J. (portrait) 165
Craw-Craw examined 290
Crawfurd's "Last Days of Charles II." 373
Cream preservatives (L.G.B. report) 473
Cream of tartar, lead in 93
Crembas 848
Creocide dip 335
Oreolin, sale in Germany 667, 764
Cresol solution 415
Cresolene poisoning 170, 516
Crewdson, M. (death) 400
Crick, C. E. (death) 636
Crin de Florence 395
Croft, C. J. (bankr.) 465, 706
Crook, A. W. (will) 256
Crosbie & Co. (fire) 528
Crossfield & Co., Ltd. (soap competition results) 113
Cross, A. (personal) 266, 394, 632
Crouch, W. S. (presentation) 631
Croup, note on 771
Crown Chemical Works, Ltd. (in-set) 188
Crown Cork Co. (exhibit) 650
Croydon Pharmacists' Association 25, 71, 550, 611, 684, 756, 869, 907
Crysova egg 437
Crystoleum process 733
Cubebs, standard for 579
Cudbear, tincture 685
Cullwick, G. (bankr.) 77, 265
Cumberland and Westmorland Chemists' Association 583, 888
Cummin oil, constituents 901
—seed, ash standard 682
Cunningham, R. W. (before G.M.C.) 827
Cunningham, J. & J., Ltd. (report) 338
Cup-moss syrup 486, 523
Cupal, Ltd. 672, 707, (shares allotted) 890
Curb-blister 734
Curdled milk (see Soured milk)
Curie, Madame (personal) 171
Curling, Wyman & Co. (outing) 62
Currie, J. (death and portrait) 112, (will) 438
Curriculum, "Xrayser" on, 963
Currie, W. L. (personal) 666
Curtis, T. W. (death) 743, 778
Customers, effect of persuasion on 731
—how to treat 522, 558, 627
Customs Act (see Legal reports)
Customs Commissioners' report 511
—department, changes 16
Cuticle acid 734
Cutting (see Proprietary Articles Trade Association and Price-protection)
Cuxson, Gerrard & Co., Ltd. (outing) 124
Cyclostyle inks 766
Cydrax 651
Cyllin as plague disinfectant 817
Cyprus essential oils 291
—exports 740

D

DA SILVA & CO. (Locock's Wafers) 537
Daffy's Elixir (note) 405
Dagg in Transvaal, 280
Dakin, Sir Thos. (portrait) 146
Dalgleish, W. H. (death) 467, (will) 894
Dalloff tea agency 961
Damage by boy, liability 423
Dan crown corks 650
Dandelion root, new season's 637
Danysz Virus, Ltd. (exhibits) 71, 437, 515
Danysz bacillus 346
—virus experiments 50
Darton, W., & Co. (electrical novelties) 793

Davidson, A. L. (portrait) 547
Davies, D. H. (death) 283
Davies, G. E. (death) 535, 568, (will) 671
Davies, Sons & Co. (lung-tonic) 403
Davis, F. (personal) 9
Davy medal award 768
Day, Hill & Hodgkinson, Ltd. (see British Drug Houses, Ltd.)
Daylight Saving Bill 180, (thrown out) 372
De St. Dalmas, A., & Co. (plaster for aviator) 238
Deadly nightshade poisoning 651
Deafness, instruments 326
Debt imprisonment, committee 14, 180, 266
Decimal system (see Metric system)
Degrees in pharmacy 300
Denoual, J., & Co. (inset) 188, (new works) 197, (laetic-health chocolates) 854, (Christmas holidays) 951
Dental degrees 302
—education 306 *et seq.*
Dental Exhibition 437, 570
—haemorrhage treatment 347
Dental Mfg. Co. (exhibit) 438
Dental Mechanics' Association, Ltd. (winding-up) 285
Dental syringe (aseptic storage) 456, (sterilising) 506
See also Tooth extraction
DENTISTS ACT:
—Bellberry case explained 932
Fees, recovering 35
Inquiries 34, 35
"Painless extraction" inquiry, 491
Prosecutions (see Legal reports)
"Specially qualified," legal meaning 119
"Teeth carefully extracted" not an infringement 423
Titles, question 388, (ed.) 932
Dentists' curriculum 307
—education 307
—soldering protective 455
Dentocain 438
Dentozone 708
Denver Chemical Co. (exhibit) 571
Depilatory, liquid 326, 948
Derby Chemists' Association 756
Dermatol, incompatibles 121
Designs, transferring 390
Deutscher Apotheker Verein 434, 468, 472, 498
Developers (pyro-soda) 26, (amidol) 125, (metol-quinol) 349, (concentrated) 755, (μ -amidophenol) 766
Developing tank 560
Devitt, A. (personal) Supp. October 30
Dewar, Sir Jas. (Davy medal) 844
Dewsbury Pharmacists' Association 583, 721, 907
p-Diazomides, production of 971
Di-sodium methylarsenate 20
Di-iodomethylarsonic acid 20
Diabetes, lecithin in 766
—treatment 801, 900
Diabeteserin 674
Diabetic marmalade 456
Diachylon poisoning Supp. July 10, 279
—sale of (Kidderminster) 698, 732
Diamidophenol developer 125
Diamond bottle-washer 650
"Diamond T" Bermuda arrowroot 27
Diamonds, artificial (Boismenu's) 105
Diary (see Chemists' and Drug-gists' Diary)
Dickinson, A. J., Ltd. 175
Diet in constipation 900
Dieterich's "Neues Pharmazeutisches Manual" (review) 372
Digalons 238
Digitalis, bio-chemical tests 213, 970
—preps., activity 900
Dimethyl-arsinic acid 19
Diphenyl-arsinic acid 120
Diphtheria, extinguishing 235
—serum, municipal supply 392
Direct Supply Aerated Water Co., Ltd. (debentures) 338
Diseases caused by microbes 614
Disinfectants, municipal distribution 426
—national control wanted 663
—standardisation ("Lancet" on), Supp. November 20, 899, (King-zett on) 978
Disinfecting fluid 423, (poisoning) 584
Disinfection, medical officers' reports 277, 330, 362
—municipal 494
Dispensers' appointments 169, 244, 314, 361, 528, 529, 530, 562, 594, 595, 631, 632, 736, 770, 807, 953
—nurses as 249
Dispensing by amateurs (letter) 800, 840
—charges (France) 666, (letter) 34, (old) 115
—discussion (B.P.C.) 184, 258
doctors ("Birmingham Mail") 393, ("B. M. J." on) 511, (discussion) 184, 279, 578, 823, (U.S.) Supp. August 7, (Cavanagh on) 895
—by druggists in Ireland (see Legal reports, Pharmacy Act Ireland)
—by friendly society 68
—in hospitals 551, (H.C. question) 827, 858, 914
—by laymen 800, 840
—mistake (France) 395, (Transvaal) 955
—legal qualification not needed 879
—notes are indexed under the names of the drugs
—prices (see Dispensing charges, *supra*)
—in private hospitals 809
—proprietary prescriptions, charge for 841
—in public institutions 551, 827, 858, 914
—on ships 460
Distilling (books) 390
Dobble, Dr. J. J. (portrait) 758
Dobell's solution 456
Doctors and chemists accord (U.S.) 847
—and school appointments 428
Dodd & Stothert, Ltd. 941
Dog-barking nuisance 628
Dogs, asthma treatment 347
—biliary fever 810
—catarrh 347
—colic 347
—distemper powder 733
—eczema in 734
—mixture 424
—as messengers 361
—shampoo liquid 980
Dolphin oil analysis 901
Domeier & Co. (terpeneless oils) 794
Doncaster Association of Pharmacists 828
Dorman, G. (death) 816
Dorveaux's "Silkworm - gut" (book) 395
Doses of potent drugs 346
—scientific adjustment 378
Dott, D. B., on alcohol in pharmacy 184, 229
Douglas, L. M. (portrait) 641
Doulton & Co. (exhibit) 651
Dover, chemists in 163
Draeger 980
Drayton, G. S. (death) 743
Drege, T. L. (portrait) 499
Dressings, sterilising 948
"Drogisten-Praxis," Buchheister's handbook (review) 478
Drug Club 882
—contracts (see Guardians, also weekly contents)
—crops (see Herb crops)
Druggist, old advertisement 596
Drug-habit, ("Xrayser" on) 341, (in France 497, (U.S.) 811
—markets of U.S. (report) 416
—pot, inscription 592
—statistics (see London drug-statistics)
Drug Stores Association (report) 426, 631, 719, 806, 844
Drug-stores, carrying on by pharmacist 765
—trade, future 356
—journals, note on 136
—adjusting doses 378
—alkaloidal variability 208
—average prices for 100 years 206
—habit (remedy) 290, (book) 715
—history (book) 455, (Tschirch on) 548, 575
—prices in 1810 257
—quality of drugs 977
"Dry Bible," cattle disease 110
Dry-rot preventive 35
Dry shampoo liquid 592
Dry-tests, notes on 38, 70

Dubbin 389
Dublin Assistants' Association, suggested 625
See Irish Chemists' Assistants' Association
Dublin Civil Service Guild (contracts) 364, 596
Dublin price-list, compiling 614
Dublin Retail Drug Trade Association 24, 278, 613, 737
Duckworth, Sir D. (baronet) 2
Duclaux, Mary (personal) 565
Dudgeon, J. H. (will) 256
Dukes, T. W. (personal) 598
Duncans & Noyer's "wood products" 124
Dun, R. T. (inset) 188, (capsules) 253
Duncan & Crake's pharmacy 126
Duncan, Flockhart & Co. (outing) 62, (exhibit) 571
Dundee Chemists' Assistants' and Apprentices' Association 3, 246, 582, 684, 723, 828, 866, 936, 968
Dundee Technical College 278
Dunlop, C. J. B. (Ph.S.I.) 77
Duplicating ribbon, ink 628, 659
Durafort & Co., Ltd. (debentures) 45
Durban, souvenir 171
Durbin's Drug-stores (Croydon), Ltd. 851
Durvelle's "Nouveau Guide du Parfumeur" (review) 477
Dusting-powders 517
Dutch Pharmaceutical Association Supp. September 11
Dye extracts (book) 124
Dyed fabrics, stripping 455
Dyer's Ozonic Pure Aerated Water Co., Ltd. (winding-up) 672
Dyspepsia (see Indigestion)

E

EAR AFFECTIONS, TREATMENT 842
Earree, W. L. (death) 707
Ear-mop 537
Early Closing Association 329
Early closing (Blackpool) 756, (Clacton) 458, (Croydon) 684, (Dundee) 171, (Edinburgh) 246, (Herm Bay, Ilford, Whitby) 529, (Kingston) 594, (Margate) 594, (Paris) 281, (Stirling) 459
—result 765
See also Shop Hours Bill
East Aberdeenshire Pharmacists' Association 25, 701, 937, Supp. December 18
Eastern Petroleum Co., Ltd. 338
Eastman, J. E. (portrait) 164
Easton & Melville, Ltd. (debentures) 255
Easton's syrup, extemp. preparation 455
—liquor for 36
Eau des Carmes 819
Eau de Cologne (No. 4) 188
—label imitating 733
Eau de Melisse 819
Ecballium elaterium components 862
Eclipse bottle-washer 650
Eclipse Mfg. Co., Ltd. 814
Ecuador, drug imports 492
Eddison's fly-exterminator (protection) 74
Edinburgh, lecture on 933
Edinburgh Chemists', Assistants', and Apprentices' Association 24, 40, 314, 722, 790, 867, Supp. December 18
Edinburgh Chemists' Trade Association 86, 938
Edme, Ltd. (exhibit) 437
Edmond, F. E. (death) 778, (will) 894
Education and examination (Tocher on) 202
—pharmaceutical 134, 293 (White on) 937
—progress 288
Educational information 134, 293
—*et seq.*
Edward VII. (birthday honours) 2, 745, 781, (visits Birmingham) 39, 72
Edwards, W. H., & Co., Ltd. (receiver) 77, 672
Edwards, W. & Co. Depôt, Ltd. (exhibit) 438
Edwards' barrel tilter 650
Edwards' "Harlene" Co., Ltd. (outing) 62, (enlarged premises) 62, 113, (inset) 188, (window-display) Supp. October 30, (dinner) 868, (price-cutting) 972

- Holskins, tanning 660
 Egg 437
 Eggs, packing material 33
 Ekin, C. (death) 279, 283, (will) 535, 545
 Elder tree, medicinal properties 802
 Electricity in textile industry (book) 215
 — ultimate composition 377
 Electrolytic Alkali Co., Ltd. (debentures) 338, 431, (report) 672
 Electrolytic Apparatus Syndicate, Ltd. 602
 Electrolytic manufacture of chemicals Supp. September 25
 Electrons, Rutherford on 402
 — theory (book) 478
 Elements, periodicity 680
 Elephant Chemical Co., Ltd. 368
 Eliot, O. A. (rubber coagulant) 350
 Elkins Pure Rubber Process, Ltd. 939
 Elixir gentianic acid 335
 Ell-Dee Mfg. Co., Ltd. 924
 Elliman, Sons & Co. (Embrocation price advanced) 432, 487, ("Xrayser" on) 509, 523, 558, 590, 611, 647, 697, 828
 Elliott & Co. (exhibit) 438
 Elliott & Co. (Edinburgh), Ltd. 814
 Ellis, J. W. (will) 63
 Emery's "Solicitors' Patent Practice" 371
 Ennontland Chemical Works Co., Ltd. receiver 378
 Emm, H. R. (before G.M.C.) 855
 Empire Glasswork., Ltd. (debentures) 466
 Empylatre Simple (Codex) 234
 — Vesicatoire (French Codex) 234
 Employers' liability (see Legal reports, also Workman's compensation)
 Emulsion, research (Pollard) 184, 17
 English, T. J. (death and portrait) 369
 English Channel, crossed by aeroplane 169
 Envelopes, postal notice 277
 Enzymes, paper on 722
 Epiconia 979
 epidemic diseases, precautions (leaflet) 758
 Encephrin (bio-chemical tests) 213, (synthesis) 903
 Engraving Co., Ltd. (inset) 188, (window display) 281, 470, (prizes) 504, (Tescen soup) 637
 Ergot, active kinds 215
 — bio-chemical tests 213
 in cattle-feed 592
 — principles 185, 229
 standard for 579, 802
 Ergothioneine (ergot base) 480
 Erutin 571
 Esculent Compounds, Ltd. 817, 851
 Essential oils, adulteration 291, 292, 355, 409
 — Bennett's lectures 426, 594, 631, 664, 699, 736, 768, 806, 845, 882, 918
 — book on 880
 — distilling (Seychelles) 280
 — solvent 916
 — nose test 452
 — standards for 580, 641, 681
 Esperanto (letters on) 676, 683, 732
 Esperanto Association of Pharmacists Supp. September 4, 497
 in pharmacy 531
 Estes, E. B., & Sons (agents) 189
 Ete-kettle labeller 650
 Ete-kettle labeller 650
 Ether, alcohol in 862
 — explosion 564
 — standard for 581
 Ethergram 358
 Ethyl tartrate as adulterant 409, 410
 Eucalyptus oil (poisoning) 5, (in scarlet fever) 102, (Cape) 335, (perfuming) 492, (standard for) 580
 Eucommia manufacture (Italy) 599, 652
 Euryl. Ltd. (inset) 188
 Euonymus hamiltonianus bark 979
 Euphorbia pulcherrima (Hill on) 227
 Euphrasia as eye-lotion 358
 Eureka bottle-washer 650
 Evans, D. A. (personal) 113
 Evans, D. T. (presentation) 805
 Evans, Sir E. (portrait) 957
 Evans' (Gwilym) quinine bitters (prices) 817
 Evans, Gadd & Co., Ltd. (outing) 63, (spirit duty) 928, (Christmas holidays) 951
 Evans Sons Lether & Webb, Ltd. (agri-hort. poisons) 61, (outing) 61, (visited) 90, (inset) 188, (old list) 324, (Liverpool virus) 505, (dividends) 567, 607, (Indian traveller), Supp. October 30, (Spanish list) 793, (Christmas lines) 801, (spirit-duty circular) 908
 Everett, W., Ltd. (debentures) 636
 Ever-ready razors 637
 Ewing, J. L. (personal) 665
 Examinations (see Education, also Pharmaceutical Society)
 Excelsior modelling wax 438
 Executors' investments 801
 Exell Bros. 595
 Exeter Association of Pharmacists 123, 611, 866, 952
 Exhibitions (see name of exhibition)
 Exol 817
 Expectorant mixture (conc.) 72
 Explosives Act, inspector's report 186
 — sale of 659
 Exports, relative growth 458
 Express bottle-washer 650
 "Exquisite" otto of rose 452
 Extracts, fluid, glycerin in (experiments) 794
 of French Codex 234
 Eye-glasses, objections to wearing 652
 Eye muscles, defects 15
 Eye-ointment, non-poisonous 842
 F
 Face POWDER, TREBLE 536
 Fadocel, Ltd. (debenture) 111
 Factory Act (see Legal reports)
 — inspectors, how appointed 423
 Faeces, colour of 980
 Failures are indexed under the person's name
 Fairchild, S. W. (personal) 569, 604
 Fairchild Bros. & Foster (exhibit) 196, (new offices) 665, (Lectithiu) 801, (calendar) 930
 Fairchild Scholarship (scope) 168, (pass list) 237, (winner) 315, (particulars) 313, (trustees' dinner) 628, 746
 Fairweather, C. P. (creditors' meeting) 331
 Farina Eau de Cologne Co., Ltd. 399
 Farmer, F., & Co. (ratto) 537
 Farren, W. J. (deed of arr.) 959
 Farrow & Jackson (exhibit) 650
 Fassett & Johnson (new premises) 556, (exhibit) 571, (photos of premises) 754, (dinner) 792
 Fat, human, use in medicine 907
 "Favorita" cachous 437
 Fawell, L. (will) 256
 Fechner, M. J. (creditors meet) 758, (deed of arrangement) 850
 Fechner, M. J., Ltd. 890
 Federation of Local Pharmaceutical Associations 86, 252, 260, 324, 791, 893, 931, 938
 Felon remedy 390
 Felton & Crepin (agency) 708
 Female pills (law case) 170
 Fenichel's perlux 438
 Fenetyl oil, standard 580
 Fermentation, books on 389
 Fermentine Co. (exhibit) 437
 Ferments in plants, action of 638
 Ferri et ammon. cit., preparing 939
 — quin. cit., preparing 939
 Ferrier's snuff 456
 Ferris & Co. (flower shows) 71, 277, 361, 426
 Ferripyrrin, incompatibles 121
 Ferrum tart., quinine and syr. limonis mixture (dispensing) 325
 Fertilisers, artificial 915, 980
 — book on Supp. September 25
 Fickus, Courtenay & Co. (inset) 188
 Fifeshire Pharmaceutical Association Supp. October 30
 Fig-root, what is? 591
 Fiji, Pharmacy Ordinance 809
 Filmaron for tapeworm 235, 358
 Finance bill (motor spirit regulations) 52, 87, 99, 114, 180, 181, (licensing clauses) 372, 409, 440, (debates) 446, 481, 505, ("Revenue Review," on) 513, 538, 573, 605, 769, 713, 768, (ed.) 820, 827, (House of Lords action) 858, 908, 918, 928
 Findlater & Co. (inset) 188, (exhibit) 571
 Flunemore, H., on cimicifuga 184, 216, (portrait) 232
 Finsbury Technical College 310
 Fireproofing solutions 842
 Fireworks, selling to children 496
 Fires (see Weekly contents, English news, etc.)
 Firm-names on poison-labels (law case) 773, 812, (ed.) 822, 861, 866, (letter) 877
 Fiscal policy (Umney on) 965
 Fischer, Prof. E. (Baly medal) 630
 Fish-bait oils 700
 Fishing nets, green 118
 Fison, J., & Co. (exhibit) 651
 Five barks jubes 403
 Fixed oils (Sage on) 928
 Fletcher, F. W. (personal) 161
 Fletcher, Fletcher & Co., Ltd. (inset) 189, (C. & D. Jubilee) 272
 Flies as carriers of infection 478, 597
 — remedy for 330
 Floor-covering, suggestions 800, 841, 879, 980
 Flower water 36
 Flowers, drying 134
 Fly-papers, sticky 358, 591
 Flysac fly-catchers 281
 Foam cream 36
 — liquid 880
 Folkestone, chemists in 163
 Food and Drugs Act (see Sale of Food and Drugs Acts, also Legal reports)
 Food and Drugs analysis (Moor & Partridge's book) 478
 Food preservative 390
 Foods, Ltd. (debentures) 672
 Foods (Blyth's book) 478, 738
 See also Diet
 Foot and mouth disease caused by lymph (H.C. quest) 709
 Ford, J. (death) 177, 256, (will) 578, 788
 Ford, Shapland & Co. (outing) 90, (history of) 157, (calendars) 504
 Forder's, Ltd. 890
 Ford artificial stone 729
 Forfarshire Chemists' Association 788
 Formaldehyde, detecting in meat, 343
 — as disinfectant 277, 330, 494
 — hair-wash 592
 — meat preservative (report) 343
 Formamint 479
 "Formulaire National" 894
 Forster, A. (presentation) 74
 Forster, J. J. (portrait) 209
 Fortuna, G., Ltd. 567
 Fossilol, analysis 935
 Foster, F. G. (decorated) 285
 Foster, H. (death) 892
 Foster (Etherbert), Ltd. (debentures) 852
 Fotofore lamp 572
 "Fountain" fruit spraying machine 651
 Four combinations of, note on 607
 Fowlds, W. (bankr.) 77, 111, Supp. July 31
 Fowlds, effect of arsenic on 526, 558
 — mineral salts for 916
 — scaley leg 733
 Fox, A. R. (personal) 529
 Foxes' lung syrup 523
 FRANCE:
 Academy of Sciences, prizes 281
 Alcohol, duty-free 953
 Association for Advancement of Science 247
 Adulteration Act, effect 171, 247
 — pharmacist inspectors 281
 Benzol duty 40, 395
 British Chamber of Commerce 497
 — trade-marks, imitating 631, 846
 Doctor prosecuted for selling drugs 332
 Finance proposals 4, 74
 Flora of (book) 597
 General Association of Pharmacists 247, 531, 666
 Mineral water (frauds) 800, (tax) proposed 531, (differ from table waters) 847
 FRANCE (cont.):—
 Pharmacists curriculum reform 247, 281, 364
 Pharmacists decorated 281
 — grievances 808
 Pharmacy inspection 171, 247, (book) 597
 — law report 40
 Pharmacy legislation suggested 332, 701
 Table and mineral waters distinction 847
 Tarif 4, 771, (decisions) 886, (revision) 955
 Trade-marks, infringement ease 886
 — British imitating 631, 846
 — for drugs 641
 United States, tariff effect 364, 395
 Francis & Co., Ltd. 368
 Franco-British Exhibition (diplomas) 90, 392
 Franklin, J. H., on paraffin ointment 185, 226
 Fraunstaedter, A. J. (death) 369
 Freeman, M. (personal) 807
 Freeman's embrocation (law case) 7
 Freezing, preventing, in radiators, 592
 French Association for Advancement of Science 247
 French chalk exports (Malaga) 912
 French Codex (formulae) 234, (as standard) 247, (changes) 673
 Friederich's dentifrices 188
 Friendly Islands, imports 431
 Frith, Jas. (portrait) 153
 Frontier toilet soap 854
 Fruit-preserving (books) 669
 Fruit-tree spraying machine 651
 Fry's "Income-tax" 371
 Fulford, C. E., Ltd. (window shows) 708, (Fulford powder) 707, 794
 Fulford will case 43
 Fullwood and Bland (history of) 157
 Fumigating vinegar 372
 Fungi, researches (book) 758
 Fur coat, moth attacks 883
 Furness, J. M. (death) 73, 91
 Furniss, T. (death) 636, (will) 757
 Furniture polish 592, (tint) 560
G
 GADD, H. W. (personal) 9, (on poison schedule) 185, 222, 225 (on poison-licences) 370
 Gadd's "Poisons and Pharmacy Act" 113
 Galactagogue 559
 Galen Club, re-started 701
 Gallie acid, colour test 916
 Galls, exports (Persia) 322
 Galvanised iron, to paint 242
 Gambier cultivation Supp. July 31
 Gardener, J. (presentation) 285
 Gardette's "Formulary" 332
 Gardner & Sons, Ltd. (inset) 189, (exhibit) 405, 437, 515
 Garnett, J. B. (bankr.) 671, 814
 Garnett & Grier on gingerol estimation 340
 Garrett's "Periodic Law" (review) 832
 Gas cylinder bursts 278
 Gas testing (book) Supp. August 14
 Gasoline, flash point 492
 Gathergood, B. W. (will) 256
 Gatooma (Rhodesia) 429
 Gazette (see Weekly contents)
 Gear's developer 125
 Geeves, C. M. (will) 603
 Gehe & Co., A.-G. (new premises) 368
 General Medical Council (additional member) 361, 826, 855
 Genoa exports 186
 Geranium oil export (Algeria) 707
 — production (Réunion) 271
 GERMANY:
 Assistants' Union (Germany) 599
 Chemical exports 367
 — trade 512, 513, 599, 834
 — works dividends 338
 Competition increasing 739
 Curriculum 316
 Customs' regulations 129
 Exports to the U.K. 498
 Galenicals, manufacture by pharmacists 498
 Perfume tax abandoned 42

- Pharmaceutical conditions 509
 Pharmacopoeia, out-of-print 739
 Pharmacy concessions 472
 Potash Syndicate 42, 572, 730
 Privileged pharmacy system 4
 Quackery bill 366
 Spirit, duty-free, regulations 667
 — prices Supp. October 9
 — tax 42, 259, (how collected) 979
 Taxes in 259
 Testing Institute scheme 599
 Trade in 1908 512
 Ghost, photographed 531
 Gibbins, R., & Co., Ltd. (receiver) 672
 Gibbs, H. R. (presentation) 569
 Gibbs, S. (death) 816
 Gibson Bros. (Hull), Ltd. 399
 Gibson, J. P. (personal) 250
 Gibson, W. H. (personal) 604
 Gilderdale, F. (portrait) 12
 Gill's "Oil Analysis" 124
 Gillette razor patent case 254
 Gillette Safety Razor, Ltd. (exhibit) 72, (shaving-stick) 537
 Gillman & Spence (exhibit) 651
 Gilmour, D. (C. & D. Jubilee) 272
 Ginger, cultivation (Sierra Leone) 130
 Gingerette essence 100
 Gingerol in ginger assay 340
 Ginseng, exports (Korea) 521
 — monopoly (Korea) 354, 462
 Glaro Metal Polish Co., Ltd. 44
 Glasgow College of Optics Supp. September 25
 Glasgow School of Pharmacy 299, Supp. September 18, 912
 Glasgow University, Pollok leetureship founded 597
 Glasgow and West of Scotland Chemists' Association 790, 939
 Glasgow and West of Scotland Technical College 428, Supp. September 19, Supp. October 2, 885
 Glass, frosting 660
 Glauber's salt, note 181
 Gledhill & Sons (exhibit) 515
 Gleitpuder, formula 517
 Glen, C., & Co., Ltd. 567
 Glenovis dip 335
 Gliddon, Ltd. 851
 Glidine combinations 572
 Gloria tonic 190
 Glover, C. H., & Co. (exhibit) 650
 Glue, liquid 569
 Glycerin in fluid extracts (experiments) 794
 — solutions, freezing-point 592
 — standard for 581
 — in tinctures, assay (Naylor & Chappell) 184, 216
 — menstruum 358
 Glycerophosphates in c.l.o. emulsion 424
 Glycyrhizin 549, (standard for) 682
 Glynn-Jones "Law Relating to Poisons and Pharmacy" 478, (ed.) 783, 819, 861, 976, (review) 837
 Glyn-Jones, W. S. (as Parliamentary candidate) 557, 570, 589, 590, 594, 625, 664, 721, 257, 785, 816, 882, (meeting described) 967
 Goadsby & Co., Ltd. 535
 Goadsby & Co. (see Hunt, L. W.)
 Goats, ailments of 508
 — worms in 508
 Gold bark, what is? 423
 Gold paint 372
 Goldby Stopper Co. (exhibit) 650, (mortgage) 959
 Golf-club handles, grip 559, 591
 Goodall, J. E. (imprisoned) 39
 Goodall, Backhouse & Co. (poster) 195
 Goodman's corn-file 238
 Gordon, Dr. J. (portrait) 885
 Gordon, R. (death) 337
 Gordon, Murray & Co., Ltd. (Birley's phosphorus) 673
 Gordon's College School of Pharmacy 298
 Gore, R. (death) 283
 Gosnell & Co., Ltd. (outing) 90, (inset) 189, (new premises) 197
 Gostling, T. P. (death) 283, 545
 Govan, A. (death and portrait) 568, (sale of effects) 846
 Government chemists' salaries 114
 Government Laboratory (changes) 16, (report) 374
 Gowers, Sir W. R. (award) 337, (personal) 630
 Graft's base-plates 438
 Graham, Dr. C. (will) 962
 Grant, D. (inset) 189
 Grass improver 696, 802
 Grate polish 948
 Gray, J. (bankr.) 601
 "Grease" in horses 455
 Grease, purification described 390
 Great Britain's trade (see Board of Trade)
 Great Western Railway Co. (factory sites) 50
 Great Yarmouth Pharmaceutical Association 24, 611, 788, 907
 Greaves, A., & Sons (outing) 177
 Greece, chemical imports 121
 Green, R. (personal) 2
 Green ink for duplicator 659
 Green ointment 372
 Green soap tincture 134
 Greenock Chemical Co., Ltd. (wind-up) 636
 Greshoff, Dr. M. (death) 925
 Grey, A. E. (optical instructor) 312
 Grey oil 121
 Grier, J. (personal) 393, (presentation) 569
 Grieve, J. (appointment) 428
 Grieves & Co., Ltd. 602
 Grimbsy Pharmacists' Association 61, 907
 Grindelia camporum cultivation 747
 Gripe mixture 660
 Greecs' Exhibition 515
 Guaiacol, administering 660
 Guaiacose 793
 Guaiasanol, incompatibles 121
 Guaranteed with medicine (law case) 43
 Guarantors, liability of 68
 Guardians and drug samples 364
 — and drug supply 3, 246, 394, (L.G.B. report) 468, 428, 495, 595, 596, 630, 632, 698, 700
 — and empties 331, 394, 459, 665, 700, 808
 — reequipment for drugs 459, 530
 — and supply of drugs by medical men 595
 Guiquard, Prof. (portrait) 640, Supp. Dec. 18
 Guillotin, invention 781
 Guildford Pharmacists' Association 611, 788
 Gum acacia (see Acacia)
 — arabic (see Acacia)
 Guins, swelling, cause of 734
 Guy's Hospital, chloroform deaths 245
 Guy's Tonic Co. (showcard) 196
 Gwynne-Vaughan, D. T. (appointment) 40
- H**
- HEMORRHOIDS. See Piles
- Hair-dressers' Guild and dangerous hair-washes 698
 Hair-dye (compensation claim) 254, 538, 566
 — p-phenylenamidine as 358
 — lotion, formaldehyde 592
 — oil, Indian advertisement 506
 Hair-wash, benzine as (H.C. quest.) 401, 650
 — carbon tetrachloride as (H.C. quest.) 285, 339, 344, 363, Supp. Sept. 4, 528, 563, 595 (H.C. quest.), 605, 646 (H.C. quest.), 650, 698
 — dangerous (H. C. proceedings) 285, 401, 605, 650
 — 632, (Hairdressers' Guild) 698
 — industrial spirit in 35, 390
 — non-greasy 389
 Hairs, superfluous, removing 68, 235
 Hale-White's "Materia Medica," Supp. October 30
 Halifax Chemists' Association 611, 756, 937
 Hall, B. (portrait) 315
 Hall, P. W., Ltd. 45
 Hall, Forster & Co., Ltd. (list) 432
 Hall & Ruekell (Sesodont price) 238
 Hallam (Francis), Ltd. (mortgage) 672
 Halogen absorption of oils (letter) 324
 Ham, Dr. B. B. (personal) 334
 Hamilton, R. (death) 892
 Hammond Mfg. Co. (cleansing paste) 370
 Hampshire, F. W., & Co. (inset) 189, (new works) 238
 Hanbury medal award 58, (presentation) 547, 548, 575
 Hancock, W. H. (death) 962
 Hands, W. (death) 962
 Hanley Chemical Mfg. Co. (exhibit) 571
 Hansen, E. C. (death) 400
 Hare, C. (cartoon) 420
 Harmaline 808
 Harrington, J. F. (new pharmacy) 960
 Harrison, E. F., on malt and oil 185, 239
 Harrison, G. (death) 707
 Harrison, H. E. (will) 578
 Harrison, J. H. (knighted) 745, 781
 Harrison, J. P. B., on bismuth-salicyl. 184, 225
 Harrison & Waide (handbills) 793
 Harrods, C. E., Ltd. 358
 Harrogate Pharmaceutical Association 788, Supp. December 18
 Hartlepools Wood Distilling Co., Ltd. (receiver) 45
 Hartshorn and oil 841
 Harvard's Institute, Ltd. (debenture) 177, (receiver) 175
 Harvey, W. (death) 892
 Harvey and Wilkie on lead tests 92
 Harwood, W. J. (death) 112
 Hassall & Co. (exhibit) 651
 Hatrick, J. L., & Co., Ltd. (sterile enema) 238, (rubber prices) 345, (fire) 805
 Havre, imports 485
 Hawksley & Son (exhibit) 571
 Hawley counter adjuncts 188
 Haywood, J. H., Ltd. (debentures) 45, (rubber prices) 345
 Headache powders 389, 423, (harmful effects) 119
 — remedies (U.S. Bulletin) 755
 Healo 403
 Health Congress 102
 Hearon, Squire & Francis, Ltd. (see British Drug Houses, Ltd.)
 Heath, J. H. (death) 369, 467
 Hebra's sp. saponatis 134
 Heilbronn, J. (portrait) 779
 Helfenberg Chemical Works 571
 Hemlock (see Conium)
 Henbane (see Hyoscyamus)
 Hinchley, J. R. (death) 400
 Henderson, J. C. (death) 9
 Hendrik, Jas. (salary) 701
 Hendry, S. M. (personal) 504
 Herb-beer extract 35
 Herb-eros (reports) 319
 Herb-growing, paper on 805
 Herb teas, 560, (in France) 332
 Herbarium prizes (see Pharmaceutical Society of Great Britain)
 — specimens, drying 134
 Herissey, H. H. (personal) 105
 Heroin hydrochloride solubility 914
 Hewlett, C. J., & Son, Ltd. (outing) 25, (inset) 189, (toilet specialties) 195, (exhibit) 571, (nebulique spray) 708, (dinner) 905, (Christmas holidays) 951
 Hewlett Memorial Exhibition 329
 Hexham (view of) 79
 Hicks, J. J. (meteorological instruments) 844
 Higgins, J. (death) 91, 467
 Higginson's ointment, at iquest 595
 Higgins, A. (personal) 831
 Hill, D. O. (early photographs) 444
 Hill, E. (death) 778
 Hill, J. S., on *euphorbia pilularia* 227
 Hill, W. E. (port.) 866
 Hillaby, J. (death) 925
 Himrod's cure, new package 281
 Hirst, B. (deed of arr.) 777
 Hoare, W. R. (deed of arr.) 501
 Hobbs, J. K. (death) 467, (will) 757
 Hodder, Hy., & Co., Ltd. (report) 502
 Hodgson (deed of arr.) 338
 Hoeftke, C. A., Ltd. (exhibit) 571
 Hoffmann-La Roche Chemical Works, Ltd. (exhibit) 196, (digalen and thiocol) 239
 (thiocol tabs.) 281, (exhibit) 571
 Hoffmann's droppels, alcohol in 335
 Högyes' Asbestos Stock Co. (removal) 70
 Holden, A. E. (portrait) 168, (personal) 178
 Holidays, paying wages during 628
 Holland (see Dutch)
 Holland's distillery sold 281
 Hollingsworth, W. S. (death) 925
 Holloway, H. D. (will) 9
 Holmes' disinfecting fluid 429
 Holocain, incompatibles 121
 "Home Cure Ointment" (police case) 496
 Homorcon, incompatibles 121
 Homoecca, Ltd. (report) 8
 Honey, Australian, flavour (letter) 454
 — find of 392
 — harvest 530
 — St. Lucian 666
 — salt in, testing 916
 Honeyman, W. (portrait) 547
 Hooper, D. (personal) 495
 Hoose mixture 492
 Hops Bill 87, 114, 266
 — substitutes 114, 266
 Hordeine, synthesis 905
 Horehound syrup 685
 Horlick's Malted Milk, Ltd. (exhibit) 571
 Hormones 722
 Hornblower, J. T. (death and portrait) 467
 Horner & Sons (outing) 7
 Horse-chestnut oil 21
 Horse, colic drink 734
 — liniment 424
 — remedies 424
 — scratches, treatment 734
 Horsefe 651
 Horticultural poisons (see Agricultural chemicals)
 Hospital abuse (Leith) 105
 — nationalisation (book on) 843, 879
 — pharmacy (Bennett on) 882
 Hot weather, effect on trade 330
 Hough, Hoseason & Co. (dance) Supp. December 18
 Household ammonia 413
 Houseleek juice 802
 Howard and Harrison on autumnsulphur 184, 224
 Howards & Sons, Ltd. (traveller's jubilee 113, (cricket club dinner) 791, (calendar) Supp. December 25
 Howorth, F. A. (personal) 773
 Huddersfield Chemists' Association 611, 788, 936
 Hindut's toilet preps. 78
 Higgins, R. (death) 431, (will) 636
 Hull Pharmacists' Association 469, 684, 788, 828, Supp. December 18
HUNGARY:
 — Pharmacy concessions 886
 — Trade of 55
 Hunt, E. J. (Mayor) 744
 Hunt, L. W. (deed of arr.) 117
 Husk draught, 492, 660, 735
 Hustler, A. E. (portrait) 809
 Hutchinson Co. (balloon-cloth) 403, (lefthand) 504 (diamond jubilee) 793, (enlarging premises) 961
 Hutchinson Tyre, Ltd. (report) 175
 Hydroargyri perchlor. (see Mercuric perchloride)
 Hydrastis, standard for 580
 Hydrobromic acid, lead in 93
 Hydrochloric acid, lead in 93
 Hydrochloric acid poisonings. Supp. July 17, 126, 245, 279, 377.
 Supp. September 4, 427, 467, 516.
 Supp. October 2, 651, 710, 747, 854, 941, Supp. December 25
 Hydrocyanic acid, dose 346
 — estimation 969
 — poisoning, Supp. July 16
 Supp. July 17, 279, 371, Supp. Sent. 4, 516, Supp. October 2, 584, Supp. October 16, 710, 833, 854, 884, Supp. December 25
 Hydrogen reducing power 340
 Hydroxyphenylethylamine (Barger on) 185, 229
 Hygiana 572
 Hygienic Institute, Ltd. (for various towns) 255

Hygienic Organisation, Ltd. 777
Hymans, H., & Co. (eucalyptus oil) 793
Hysocamine (two forms) 825
Hynal, incompatibles 121
Hypnotism (book) 413
Hypodermic syringes, sterilising 506
— triturate-tablets 867
Hyslop, G. (death) 369

I

Ice, STANDARD FOR 677
Ice-making machine 572
Ichthyol Co. (jubilee) 78, (inset) 189
Ichthyol, analysis 935
Ichthynam, analysis 935
Ichtosan, analysis 935
Ideal radiators 479
Ideal valve feeder 572
Ido (letter on) 626, 658, 732
Idris, Mrs. T. H. W. (personal) 816
Idris, T. H. W. (personal) 14, 768
Idris & Co. (exhibit) 650, (factory visited) 756, (report) 890 (meeting) 924
Iglodine Co. (law case) 776, 923
Ilford, Ltd. (exhibit) 514, (dividend) 815, (report) 851, (meeting) 890
Immunity therapy (book) Supp. September 25
Imperial College of Chemistry 297
Imperial College of Science and Technology (foundation-stone laid) 71, 310
Imperial Commerce Club 458
Imperial Institute (report) 290
Imprisonment for Debt Committee (see Debt)
"Inch" Wine Co., Ltd. 851
Income-tax (books) 124, 371
— company's position 3
— return 525
Indecent advertisements legislation 505
Independence Day 39
INDIA:
Assistants in 490, 730, 840
Cocaine sale prosecution 651
Octroi abolition advocated 475
— on parcels post 634
Trade in 1908 678
India-rubber (see Rubber)
Indian dolphin oil 901
drugs (report) 343
— ink, how made 134
— pickle 660
Indigenous Drugs Committee (report) 343
Indigestion mixture (cone) 72
Industrial chemistry (book) 124
— spirit (in H.C.) 372, 573 (in O.R.C.) 849
— in hair-washes 35, 390
— price 878
— statistics 376
Infants' carminative 948
— "Comforter," death from 920
— feeding (book) 715
— foods, starch in 75
Infectious Diseases (book) Supp. October 30
Influenza, prevalence (Glasgow) 846
Infundibular pituitary lobe extract 571
Inglis's "Express Wages Reckoner" Supp. September 25
Ingram, J. G., & Son (rubber price) 345
Ingram & Royle (exhibit) 571, (natural waters) 800
Inhabited-house duty, yield 610
Ink, copying-pad 880, 980
— eradicator liquids 592
— green, for duplicating ribbon 678, 659
— ticket-writing 456
— typewriter 880
Inland Revenue Commissioners' report 542, 610
Inman, Ltd. (described) 13
Insect flowers, exports (Trieste) 674
— price (letter) 33
Insecticide for cockroaches 486
— controlling quality, 954
Insect-sting lotions 326
Institute of Chemistry (curriculum) 309, (new premises) 768, (pass list) 102, 844, (Natal secretary) 955
Insurance against sickness 25, (Germany) 132, 466

International Anti-Saccharin Congress 701, 808
International Chemical Co. (Hoffmann's powders) 570
International Congress of Applied Chemistry 19
International Congress of Nurses 102
International Congress of Pharmacy 633
International Congress for the Repression of Adulteration (subscription) 171, 247, (scope) 290, 497, 544, (drug-standards) 577, 579, 597, (report of proceedings) 639, 663, (ed.) 677, (report of proceedings) 681, (next meeting) 701, (Douglas on) 714, 808
International Dental Congress 367
International Distributing Co., Ltd. (Berset shaving-brushes) 637
International Exhibitions Department (see Board of Trade)
International Medical Congress 400, Supp. September 11
International Plasmon, Ltd. (exhibit) 571, (capital reduction) 851, 924
International Sponge Importers, Ltd. (capital reduced) 111, (dividend) 567
Intoxicants, sale by prescription (U.S.) Supp. August 7
Invalid diet, note 980
Iodine liniment (S.V.M. in) 274
— petroliniment 418
— poisoning 126
— production (Chili) 838
Iodised carbolic acid 372
Iodo-tannic solution 194
Ionic medicament, tablets for 50
Ionone patent case (U.S.) 32
Ipswich Chemists' Association 582, 721
Ireland, trade of 564
Iridium, atomic weight 480
Irish Chemists' Assistants' Association 829, 846, 866, 884, 936, 972
— goods, exhibition 278
— Local Government Board (see Local Government Board)
— moss, gathering 485, 570
— University 289
Iron analysis (book) Supp. October 30
— reduced, standard for 581
— scale preparations 939
Irvine, J. C. (appointment) 4
Isaacs, I., & Co. (history of) 158
Isarol, analysis 935
Isdale & McCallum, Ltd. 8
Islip L. J. (prosecuted) 529, 663, 698
Ismay, R. (portrait) 12
Iso-amyl arsonic acid 120
Isoform, incompatibles 121
ITALY:
Pharmaceutical curriculum 317
Pharmacy Bill 85, 115, 132, 367, 655
— law, ancient 115
Pharmacopœia revision 739
Quinine revenue 534
Tariff revision 366
Iveleon 515

J

J.S.W. PREPARATIONS, LTD. (meeting) 45
Jahorandi, standard for 580
Jack, L. (death) 568
Jackson (Andrew), Ltd. 502
Jacob's "Examination Manual" 332
Jago's "Forensic Chemistry" 646
Jalap, standard for 580
Jamaica exports 463, 980
James, T. (personal) 366
James, W. (bankr.) 663
James' fever powder, history 158
Jameson's horn rubber 438
JAPAN:
Chemical exports, testing 396
— standards 28, 48
Delegates, selection of 365
Drug analyses 462, 740, 811
Experts to Manchuria 740
Medical law amendment 811
— men census 811
Patent laws amendment 811
Pharmacists' census 811
Proprietary medicines, origin 107
Trade in 1908 117, 941

Japan wax, production 130
Japanese aconites 669
Japanese Pharmacopœia, standards 28
Jargonelle pear essence 389
Jarrow (booklet) 562
Jecovol 572, 637, 673
"Jekyll and Hyde," note on 841
Jenkinson, J. (death) 778
Jewel of Asia perfume 189
Jeyes' Sanitary Compounds Co., Ltd. (exhibits) 2, 71, 571, 651, (plague disinfection) 817
"John Bull," extract 437
Johnson, C. (will) 578
Johnson, E. (portrait) 162
Johnson & Hooper's successors 188
Johnson, Matthey & Co., Ltd. (debentures) 852
Johnson & Sons, Ltd. (exhibit) 514
Johnston, J. (portrait) 107
Johnstone, W. H. (bankr.) 601, 742
Jones, F. (portrait) 165, (death) 892
Jones, H. H. (presentation) Supp. July 10
Jones, I. J. (death) 743
Jones, J. (death) 925
Jones's "County Court Guide" Supp. August 14
Jennesco's spinal anaesthesia 783, 806
Jörgensen, J. (personal) 178
Josephs, P., & Sons (shop-fittings) 853
"Journal de Pharmacie," note on 136
Judson, E. E. (will) 63
Jungfleisch, Prof. (presentation) 74
Juniper oil (constituents) 901, (standard) 580
Jury service, chemists and 146

K

K.C. SOAP AND POLISH CO. (1909), Ltd. 890
Kahlbaum, Prof. memorial 711
Kangalugi, therapeutics 899
Kapsol's ointment 734
Kapsall's, Ltd. (debentures) 399
Karox recipe, charge for 730, 841
Kavasan 570
Kawar root 480
Kay Bros., Ltd. (outing) 277, (fly-catchers) 281, (directors) 285, (almanack) 570
Keane's "Modern Organic Chemistry" (review) 477
Keating's powder, passing-off case 254
Keen, Robinson & Co., Ltd. (exhibit) 571
Keighley Chemists' Association 61, 756
Kemp, F., & Co., Ltd. (Australian agencies) 78
Ken-Laur signs 650
Kent, A. B. (portrait) 370, (lecture) 737
Kent, G. B., & Sons, Ltd. (outing) 426, (dividend) 890
Kerr, C. (personal) 171, (portrait) 394
Kerr's detergent 651
Kersé, W. (portrait) 12
Kertamanah Cinchona Co. (report) 742
Kidd, J. C. (optical instructor) 312
Kiki examined 290
Kilner, J., & Sons, Ltd. 777
Kingsley, A., & Co. (Exol) 817
Kingsley and Thackeray Hotels, Ltd. (inset) 189
Kingston bottle-washer 650
Kinnimont prize 551, 846
Kinsley, F. W. (death and portrait) 9
Kirby, H. & T., & Co., Ltd. 196, (exhibits) 571
Kirby feeding-cup 572
Kline, M. N. (death) 925
Knapp's "Cause of Consumption" 124
Kncale, Dr. J. C. (appointment) 330
Knight, G. J. (personal) 330
Knight, T., & Co., Ltd. 602, (debentures) 636
Knoll's "Materia Medica" 27
Knoll's santonol patent 329
Knowles, R. (death) 112
Knowles Oxygen Co., Ltd. (mortgage) 285
Koch's "Pharmakognostischer Atlas" Supp. October 30

Koecher, Prof. T. (portrait) 927
Koko-Mariepas Co., Ltd. (debenture) 368
Kola (introduced) 428, (standard) 580
Kölner's blood-purifying tea 560
Kolynos, Incorporated 399
Korca, drug imports 517
Kosmos cork washer 650
"Kra-kra," Whittles on Supp. August 14
Kraemer's "Botany and Pharmacognosy" (review) 236
Krainite Sugar Co. (exhibit) 651
Kuro, Ltd. 45

L

"LA CARBONIQUE PUR," LTD. 255
Labelling hint 517
La industry (India) 270
Lacey, J. (personal) 396
Lacquering described 389
Lactic acid therapy 235
— bacilli and iron tablets 504
— preps. inactivity 899
Lacy, H. (death) 926
Laidlaw's extract of tobacco 335
Lamb-drench 134
Lambblack (Alcock on) 443
Lamson Paragon Supply Co., Ltd. (exhibits) 437, 515
Lancaster Chemists' Association 24, 611, 721, 882
Lancaster Chamber of Trade 882
Land sale agreement 842
"Landlord and Tenant," book 646
— inquiries 274, 383, 454, 581, 841, 842
Lane, E. G. (death) 337
Lane, H. R. (death) 707
Lang (Jules) & Co. (exhibit) 436
Lang's Successors, Ltd. (creditors' meeting) 672
Lanolin cream 696
Larola show-card 961
Lassar's menthol ointment 980
Latham, H., & Co., Ltd. 851
Latham's "Medical Treatment" (review) 236
Laudanum, dose 346
Laudanum poisoning 28, Col. Supp. July 17, 170, 246, 279, Supp. September 4, 467, Supp. October 2, 651, 710, 747, 769, 793, 835, 854, 883, 941, Supp. Dec. 25
Laundry "strip," damage by 655
Laurence, L. (optical instruction) 313
Lavender oil adulteration 292
— standard for 580, 681
Lavex, Ltd. 502
Lavonade composée prescription 730
Lawes' Chemical Manuf Co., Ltd. (debenture) Supp. December 18
Lawn sand 242
Le Bon, G. (scientific work) 738
Le Canu, biography Supp. July 24
Lead, colorimetric determination 21
Lead in urine, testing 100
Lead, testing for (Harvey and Wilkie) 92
Leather manufacture (book) 715
— patent, manufacture 424
— stain 766
— weighting 735
Leavey, J. (death) 91, (will) 671
Leaves, to dye 980
Lebour, Prof. G. A. L. (portrait), 209
Lecithin in diabetes 766, 801
— manufacture (Italy) 739
Lectures by pharmacists 766
Lee, J. E. (deed of arr.) 814
Lee, J., & Son, Ltd. (bee vaccinator) 584
Lee, J. "Hygienist," Ltd. 851
Leeches, keeping 358
— old adv. 541
Leeds Chemists' Association 124, 649, 757, 869, 972
Leeds College of Pharmacy 298, 313
Leeds Education Department Supp. September 25
Lees, Dr. A. (death) 603
Leg ulcers, treatment 235

LEGAL REPORTS:—

Companies Act:—
International Plasmon Co., Ltd. (capital reduced) 924
International Sponge Importers Ltd. (capital reduced) 111
Myddleton's, Ltd. (winding-up) 464

LEGAL REPORTS (cont.) :-

- Companies Act* (cont.) :-
 Radua Mfg. Co., Ltd. (receiver appointed) 815, (capital reduction) 851
 St. Jacobs Oil, Ltd. (capital reduced) 111
 Turvey Treatment Co., Ltd. 175
- Dentists Act* :-
 Holmes, J. B. (using title dentist) 706
 Lady Blount's Medical Aid Society (using title) 465
 London Hygienic Institute ("specially qualified") 76, 119
- Factory Act* :-
 Employes fined 364
 Unfenced bottling machine 2
- Fertilisers and Feeding-stuffs Act* :-
 Berry, S. (potash in kainite) 533
- Foodstuffs Adulteration Act* :-
 Porter, A. & D. (linseed cake meal) 889
- General* :-
 Adams v. Kelsall (debt case) 368
 Ainslie-Walker v. Imperial Colour Co. (Dixie disinfectant) 76
 Aitken v. Williams (drug account) 244
 Allen v. Riordan (price of National Cash Register) 43
 Beaton v. National Cash Register Co. (breach of contract) 706
 Beecham v. Hogg (passing off) 399
 Beecham v. Marshall (passing off) 399, 430, 776
 Beecham v. Martin (passing off) 399, 813
 Berdoe & Fish v. Carver, Waite & Co. (transfer agents' commission) 501, 541, 625
 Cadbury Bros. v. "Standard" (libel action) 884
 Camwall Ltd. v. Burch (recovering siphons) 533
 Carling v. Applied Inventions, Ltd. (Oatine commission) 430
 Carlton Illustrators v. Coleman & Co. (copyright adv.) 922
 Coleman & Co. v. Attoe (passing off Wincarnis) 850
 Cowan v. Lewis (treatment of finger) 958
 Crossley-Holland v. Hope (damages for negligence) 2
 D'Arcy v. Kissane (passing off "Freeman's Embrocation") 7
 Davies v. Chamberlain & Levinstein (brine development co.) 43, 173, (appeal) 924
 Dorn v. Yeomans (proprietary medicine business) 740
 Dunford's trustee v. Pearson (payment for business) 172
 Fulford v. Hardy (will case) 43, 254
 Fulford, Ltd. v. Milner (bile beans action withdrawn) 172
 Fulford v. Wilde (bile bean action withdrawn) 172
 Gibson v. Client (passing off case) 76
 "Grantham Advertiser" v. Leslie Martyn (advertising claim) 706
 Hall v. Altono (debt case) 890
 Hardman v. Hardman (imitating prop. pills) 889
 Hawthorne v. London Hygienic Institute (tooth-extraction injury) 634
 Henderson v. Henderson (slander case) 920
 Hewlett & Son, Ltd. v. Macdonald (debt case) 890
 Hunniford v. Gibson (damages recovery) 920
 Huntley, Walker & Co. v. Kay (price of tyre) 567
 Ideal Typewriter Co. v. Simpson (typewriter claim) 464
 Igloidine Co. v. Allenby ("sale or return" conditions) 776, 923

LEGAL REPORTS (cont.) :-

- General* (cont.) :-
 Igloidine Co. v. Coultram (sale or return) 923
 Impulsio Co. v. Robinson, Pickering & Hunt, Ltd. (debt claim) 882
 Incorporated Dental Hospital v. Keogh (student's action) 700
 International Sponge Co. v. Watt & Sons (sponge claim) 889
 Irving v. Bodie (action for damages) Supp. Nov. 6
 Joyce v. Kelly (sodium carbonate for Glauber's salt) 665
 Karabon Co. v. Hygienic Syphon Co. (debt claim) Supp. Nov. 20
 Keating v. Drinkwater (passing off) 254
 Kelvinside Chemical Co. v. Kelvinside Chemical Co. (use of name) 76, 758
 Keogh v. Dental Hospital of Ireland (libel case) 3
 Kerr, Lang & Jackson v. Barbour (linseed meal contract) 533
 Kilmarnock Co-operative Soc. v. Wyllie (giving credit) 889
 Kugler v. Kennedy (retaining goods not to sample) 464
 Leishman v. Provincial Motor Cab Co., Ltd. (claim for damages) 73, 632
 Lever Bros., Ltd. v. "Daily Record" (settled) 40
 Lever Bros., Ltd. v. Midland Railway Co. (railway rates) 108
 Lever Bros. v. Salveson (soap bonus) 455
 Little v. Sparks, Treharne & Denham (ship surgeon's claim) 172
 Lloyd v. Acton (apprenticeship cancelled) 958
 Logan v. Campbell ("guaranteed to cure") 43
 London Guarantee & Accident Co. v. Casterton (accident policy premiums) 169
 Loudfoot v. Scottish Chemical Co. (arrears of salary and expenses) 73
 Machin v. Tidswell & Manley (damage to vehicle) 108
 Matthews v. Hygienic Institute (damages for tooth extraction) 170
 Maurice v. Strawsons (vaporite agency commission) 670
 May, Roberts & Co. v. Harding (debt case) 776
 Mayor, Sworder & Co. v. Green (spirit permit) 172
 Millward v. Barclay (Wigan's gout-pills) 533
 Morton & Burton v. Zobb Bros. (debt case) 533
 Murray v. Murray (divorce) 737
 Nugget Polish Co. v. Ashman (price-agreement) 776
 Nugget Polish Co. v. Holmes & Andrews (price-protocol) 670
 Nugget Polish Co. v. Morley & Wilson (passing off ease) 813
 Nugget Polish Co. v. Pocock Bros. (price-agreement) 740
 Park v. N.W.D.A. (trust law) 367, 395
 Paterson v. White & Sons (poison in hop-ale) 634
 Popular Publishing Co. v. Worth (recovering advertisement charges) 430
 Pronk, Davis & Co. v. Goodgame (damage by laundry "strip") 635
 Randall & Sons v. Levene (debt claim) 635
 Ratkin Lab. v. Chandler (warranty) 923
 Riddle v. Nugget Polish Co. (manager's contract) 812

LEGAL REPORTS (cont.) :-

- General* (cont.) :-
 Ronnik, Ltd. v. Gardner & Sons (copyright of latex) 958
 Sanderson v. Osborne (sale of business) 741
 Silberstein v. National Drug Co. (price - maintenance case) 106
 Singer v. Salmon, Ody & Co. (sewing machines debt) 430
 Smith's Advertising Agency v. Johnston (Turvey treatment advertising) 776
 Smith's Advertising Agency v. Leeds Laboratory Co. (advertising vitaloids) 705, 740
 Standing v. Rennie (testimonial fictitious) 813
 Stanley v. Hay (typist's wages) 254
 Steele v. Morton (hair dye damages) 254, 338, 567
 Taylor v. London Hygienic Institute (cocaine in tooth-extraction) 704
 Templeton v. Burns (recovering money) 845
 Turner v. "Grocers' Review" (adv. account) 889
 United Chemical Works v. Lowenstein (action against agent) 599
 Warwick Bros. v. Altschuler (partnership case) 923
 Whiteford v. McKellar (doctor's fees) 4
 Williams & Co. v. Bronnley & Co. (appeal) 599, 657, 817
 Young v. Young (will case) 108
- Inland Revenue Act* :-
 Baker, P. C. (unlicensed sale of medicated wines) 464
 Butler, T. G. (selling s.v.m. without licence) 601
 Chapman, B. (selling s.v.m. without licence) 601
 Schaeffer (selling wine without licence) 76
- Licensing Acts* :-
 Butterworth, J. T. (sale of wine in street) 174
- Medical Acts* :-
 Milne, J. D. (using titles) Supp. July 24
- Medicine Stamp Acts* :-
 Baker, P. C. (unstamped medicine) 464
 James, M. W. (selling at a stall) 7
 Migge, W. (antineurasthin as food) 173, 255
- Merchandise Marks Act* :-
 American Dental Mfg. Co. (weight of dental rubber) 850
 Croskery, J. (Beecham's pills) 284
 Edwards, W., & Co. Depôt, Ltd. (half-pound packages) 812
 Kidd, W. (Beecham's pills) 284, 338
 Paregoric, Supp. July 31
 Wyk, W. P. ("half milk") 601
- Patent Act* :-
 Badische Anilin und Soda Fabrik v. Nobel's Explosives Co., Ltd. (H_2SO_4 , patent case) 43
 Barr & Sons (use of word patent) 254
 Elberfeld Co. v. Kuehnsted (aspirin patent U.S.) 500
 Gillette Safety Razor Co. v. Gamage (limited licence) 254
 Isola Gesellschaft v. Thermos, Ltd. (Thermos patent) 464, 500 (see also Thermos v. Isola, *infra*)
 Saccharin Corporation v. Bloomer, 889
 Saccharin Corporation v. Denison, 889
 Saccharin Corporation v. Jacks Mineral Water Co., 889
 Saccharin Corporation, Ltd., v. Mills, 813

LEGAL REPORTS (cont.) :-

- Patent Act* (cont.) :-
 Saccharin Corporation Ltd., v. National Saccharin Co. (patent infringement) 254
 Thermos, Ltd. v. British Caloris Co. (Thermos patent) 704
 Thermos, Ltd. v. Isola, Ltd. (Thermos patent) 533, 776
- Pharmacy Acts* :-
 Cornell & Cornell, Ltd. (sale of poison) 43
 Davies, D. 922
 Edwards, T. (firm-name on label) 775, 812
 Higgott, W. (laudanum improperly labelled) 705
 Mercer case (appeal) 668, 676, 711, 752
 Morris, W. D. (sale of poison) 922
 Nice, A. (sale of poison) 705, 773
 Owen, W. (sale of carbolic acid) 533
 Poupart, E. (labelling nicotine insecticide) 116
 Reoch, A. T. (sale of poison) 635
 Rowland, T. W. (improper labelling strichnine) 601
 Stephenson, Mrs. (sale of poison) 284
 Walton & Co., Ltd. (sale of poison) 108, 118, 174
- Pharmacy Acts (Ireland)* :-
 Duggan, W. (unqualified manager) 889
 Marshall, H. (dispensing) 889
 Reavy, P. D. (compounding prescriptions) 500, 530
- Pharmacy Acts and Ordinances, Colonial* (see under name of country).
- Poisoned Flesh Prohibition Act* :-
 Wright, J. (strychnine poisoned meat) 529
- Revenue Act* :-
 Saccharin harbouring 329, 919
 Saccharin smuggling 108, 361
- Sale of Food and Drugs Acts* :-
 Almond-oil 44
 Camphorated oil 500, 741
 Cream (boric acid) 277, 465
 Cream of tartar 108, 284, 368
 Eucalyptus oil 850
 Fluid magnesia 465
 Ginger wine 7
 Mace 108
 Magnesia 534
 Malt vinegar 255
 Olive oil 368
 Pepsin chewing gum Supp. July 31, 255
 Saffron 431
 Soda water 567
 Spirit sal. volatile 108
 Sweet spirit of nitre 255, 500, 533, 922
 Vinegar 44, 174, 255, 567
 Warranty, duration 922
 White precipitate ointment 44, 431
- Trade Marks Act* :-
 Brock, H. N., & Co. (Orlwoola trade-mark) 7, 703, 775
 California Fig Syrup Co. (trade-mark) 703, 775
 Crosfield, J., & Sons ("Perfection" trade-mark) 671, 703, 775
 Holbrooks, Ltd. (swan mark) 634
 Ogston & Tennant (teapot trade-mark) 703
- Weights and Measures Act* :-
 International Tea Stores (price-computing spring balance) 500
 Norriss, J. W. (unjust scales) 601
- Workmen's Compensation Act* :-
 Butler, W. J. (compensation) 368
 Hasset v. Cork Chemical Co. (bicycle death) 246
 Holdom, E. (injury by burns) 567
 Stronge v. Haslett (claim dismissed) 601, 922

- Legislation, pharmaceutical (Reid on) 421, ("X-rayer") 439, (letters) 489
 Leicester and Leicestershire Chemists' Assocn. 611, 647, 828, 972
 "Leicester Pharmacist" 611
 Leicester Pharmacy Athletic Club 831
 Leipzig University 335
 Leitz, E. (exhibit) 571
 Lemon-juice, artificial (law case) Supp. Oct. 3
 — preserving 948
 Lemon Kali as baking powder 840
 Lemon oil, pinene in 785, (U.S. research) 824, (Parry) 875, (Wiley on) 91, (Burgess on) 946
 — rejection (U.S.) 785
 — standard for 580, 681
 Lemonade, charges for seltzogene 389
 — powders 134
 — syrup colouring 134
 Lemongrass oil, standard for 581
 Lemale, T., & Co. (exhibit) 438
 Lennon, Ltd. (exhibit) 479
 Lepper, F., Ltd. (exhibit) 438
 Letts, S. (deed of arr.) 502
 Leukoplast 435, 570
 Levanzin, A. (portrait) 893
 Levy, A. I. (bankr.) 7, 111, 890
 Lewis, D. J. (death) 778
 Lewis, J. (death) 852
 Lewis, J. H. (bankr.) 43
 Lewis, S. J. (personal) 285
 Lewis & Burrows, Ltd. (report) 815, 822
 Lichtenstein & Co., Ltd. 567
 Liebig's Extract of Meat Co., Ltd. (reception) 438, (exhibit) 651
 Life at low temperatures, 126
 Lifebelt Coffee Co. Supp. Aug. 14, (exhibit) 571
 Liggins's barrel tiltter 650
 Light, theory of (Carre on) 489
 Lime oil constants 901
 Limited company (and sale of business) 665, (capital reduction) 812
 Lincoln Chemists' Association 866
 Lindsey, T. G., & Co., Ltd. (Goodman's corn file) 238
 Linen, sensitizing 444
 Liniment, formulae 710
 Lion pink rubber 438
 Lippmann, E. O. von (personal) 711, 781
 Liquid paraffin (perfuming) 389, (colouring) 90
 Liquid soap 36
 Liquor amni. acet. (17) 592
 ammonii anisatus 372
 arsenicalis, dose 346
 bismuthi and sodii bicarb. mixture (dispensing) 388
 carbonis detergens (in Canada) 848
 — magnesii carb., lead in 93
 — morph., excessive qty. used (Belfast) 364
 — picis 335
 — picis carbonis in Canada 848
 — viola cone, 376
 Liquorice-juice, standard for 580
 — root exports (Alexandretta) 186
 Lisbon, pharmacies in 193
 Listerine substitute 980
 Lithium carbonate, lead in 93
 Lithyl, analysis 935
 Little Dart labeller 650
 Little liver pills 558, (letter) 800
 Littlefields, Ltd. 742
 Livache's "Mfr. of Varnish" 124
 Liver-salt 790
 Liverpool Borax Co., Ltd. (debenture satisfied) 777
 Liverpool Chemists' Assocn. 515, 685, 699, 723, 829, 869, 907, 936
 "Liverpool Price list" 403
 Liverpool School of Pharmacy Supp. July 10, 298
 Liverpool School of Tropical Medicine 699
 Liverpool Teeth Aid Association, Ltd. 502
 Liverpool virus tests 505
 Lloyd, C. F. (death) 49, (will) 256
 Lloyd (Nelson) Obesity tablets 736, 883
 Lloyd, R. (will) 535
 Lloyd, T. Howard, & Co. (Christmas holidays) 951
 Lloyd, W. (Mayor) 744

- Lloyd's Reducing Treatment 737, 833
 Lobster, note on 429
 Local Government Board (for Scotland) report 17, 474, (Ireland) 407
 Locatelli balsam 372
 Lockock's wafers 537
 Lodge, Dr. G. H. (personal) 816
 London Bottle Co., Ltd. 742
 London Chamber of Commerce (Chemical-trade section) 435, 555, 577, 806, (chemical-trade section) 965
 London Chemical Co. (exhibit) 651
 London Chemists' Association 518, 613, 936
 London Chemists' Golf Club 393, 563
 London College of Chemistry, &c. 297, Supp. Oct. 2, 912
 London County Council contract 805
 London Customs Bills of entry 447
 London drug statistics 66, 271, 446, 6-4
 London Essence Co. (exhibits) 437, 651
 London freedom of City 802
 London National Cash Registers Users' Protective Association 329, 458, 806
 London Port Authority rates (schedule) 441, 521, (discussion) 555, (deputation) 780, 806, 870
 London and Provincial U. R. Druggists' Association 769
 London "Stow's Survey" reprint 471
 London University (Appointments Board) 4-6, (B.Sc. passes) 883, 893, (exam. regulations) 663, (M.D. degree) 630, (matriculation) 295, (medical degrees) 769, (research endowments) 918, 962
 Longbotham, J. (will) 256
 Long firm frauds 39
 Longworth Rannard & Co., Ltd. 567
 Lothian malt extract 437
 Lotio hydrargyri nigra (new formula) 241, (position in schedule), 325, 357
 — sulphuris co. 652
 Lowe (Charles) & Co., Ltd. 890
 Lozenge making (book) 880
 Lubrolein Oil Co., Ltd. (debentures and receiver) 45
 Lucas, W. (death) 112, (will) 399
 Luggage tally machine, 393
 Luke, St., as a physician 575
 Luminous paints 456
 Lumley & Co. (exhibit) 650
 Lung-tonic 403
 Lyman, C. (portrait and death) 852
 Lymphoid compound 674
 Lyncheop's "Cough Cure Co. (removal) 709
 Lysol poisoning 427, 461, 854
- M**
- MacARTNEY, J. S. (death) 926
 Macajone, E., & Co. (London agents) 708
 McCullay, T., & Co., Ltd. 8
 Macdonald, A. (portrait) 107
 Macdonald Dental and Medical Co., Ltd. (debentures satisfied) 636
 Mace, what is? 108
 Macfarlan, J. F., & Co. (new works) 771
 McFarlane, R. J. (death) 400
 McGrane, J. L. (before G. M. C.) 827
 Melintosh's "Mfr. of Varnish" 124
 McIver, A. (portrait) 165
 Mackay, G. J. (personal) 532
 McKendall, T. T. (before G. M. C.) 874
 Mackenzie, Sir M. (memorial) 244
 McKesson & Robbins (inset) 189
 McLean, R. (personal) 394
 MacLeod, G. (presentation) 632
 McLoughlin, G. M. (personal) Supp. Dec. 18
 Macphersons (Shaw Inhaler) 708
 McWalter, J. C. (on prop. medicines) 541 (personal) 564
 McWalter, V. (death) 926
 Madagascar, medicine distribution by missionaries 481
 Maggots, dyeing, for fishing 733
 Magnalum balances 505
 Magnesia, calcined, standard for 581
 — influence on fish 15
 Magnesium eucalcidate 20
 — carb. what is? 979
 — salts, lead in 93
 Maidstone, chemists in 163, 272
 Majax food 189
 Major examination (see Pharmaceutical Society)
 Major & Co., Ltd. (solignum) 72
 Malaria in India 462
 — powder 560
 — quinine for 19
 Malley, W. L. (bequests) 41, 75
 Malling, chemists in 163
 Mallmann's Chemical Works 175
 Malt analysis (books) 766
 — extract, diastasic power and c. i. o., assay (Harrison on) 183, 230
 Maltine Mfg. Co., Ltd. (exhibit) 571
 Malto-haemoglobin 572
 Malvern Mineral Waters Co., Ltd. (receiver) 368
 Managing men, requirements 559
 Manchester Assistants Association suggested 658, 839
 Manchester College of Pharmacy 298, 907
 Manchester and North of England Optical Society 612, 736, 905
 Manchester Oilseed Crushers, Ltd. 959
 Manchester Pharmaceutical Association 569, 647, 789, 919, 936, 951
 Manchester scholarships (see Pharmaceutical Society of Great Britain)
 Manchester University (degrees conferred) 563, (new laboratories) 529
 Manganese ore production 270
 Mangrove bark concession (E. Africa) 888
 Mann, Crossmau & Paulin (exhibit) 651
 Mansfield Pharmacists' Association 647
 Manures, artificial 915, (books) Supp. August 14, Supp. September 25, 980
 Mapieue, misbranding (U.S.) Supp. Aug. 7
 Margerison, Wm. (Mayor) 744
 Margeson, J. F. (death) 569, (will) 757
 Maris's "Card-Index" (book) 646
 Market place medicine-vendors (Wigan) 39
 Marley & Russell (described) 11
 Marmite Food Ext. Co., Ltd. (debentures) Supp. Dec. 18
 Marmola prescription 730, 841
 Marnoch, J. (appointment) 428
 Marquetry stains 842
 Marriages (see weekly contents)
 Marshall & Co., Ltd. (debentures) 77, (receiver) 466
 Martin, Dr. W. on bio-chemical tests 184, 213
 Martin, N. H. (personal) 10, (portrait) 211, (loving cup) 499, 536
 Martin, W. T. (death) 49, (will) 372
 Martindale, W. H., on organic arsenic compounds 19
 Martindale, W. (exhibit) 571, (Stovaine anaesthesia) 817
 Mason, Dr. (appointment) 74
 Masonic notes 370, 666, 885. Supp. Oct. 30, 921, 927, Supp. Dec. 18, 953
 Massage (book) 232
 Massey, Chas., & Son, Ltd. (debentures) 45
 Massolettes 537, 571, 604
 Master and servant inquiries 388
 Master-wort, use of 591
 Mastic exports (Seio) 856
 Matches, origin 72
 Materia medica (books) 236, 315
 Matico oil 901
 Matriculation, chemistry and physics (book) Supp. Oct. 30
 Matthaei & Co. (exhibit) 571
 Matthews, D. (Mayor) 744
 Mauritius imports 894
 — pharmacy in 172
 Maw, S., Son & Sons, Ltd. (rubber prices) 345, (cricket team) 363, (army contract) 604, (tooth-brush show-card) 604, (terri-
- tories) 755, (Christmas holidays) 951
 Mawson & Co. (Kavasan) 570
 Mawson Filter Co. (inset) 189
 Mawson, Swan & Weddell (described) 10
 May & Baker (history of) 158, (Christmas holidays) 951
 May, Roberts & Co., Ltd. (inset) 187, (list) 479, (mortgage) 959
 Mayer, E. E., & Co., Ltd. 636
 Mayors, chemists as 744
 Meadowcroft's (Sheffield), Ltd. 602
 Measures, preserving 732
 Meat extract, separating salt 801
 — and malt wine requires licence 388
 — preserving 388
 Medical Act prosecutions (see Legal reports, Medical Act)
 Medical Advisory Committee (Colonial Office) 651
 "Medical analyst" as title 325
 Medical Animal Serum Institute, Ltd. 672
 — attendance, miners' objection 460, 530
 — company formation 898
 — curriculum 302, (G. M. C.) 826
 — degrees 502
 — dictionary Supp. Oct. 30, (Hoblyn's) 715 (see also "Chemists' Medical Dictionary")
 — diplomas 503
 — directory 905
 — education cost 302
 — information 301 et seq.
 — in S. Africa 398
 — time extension 895
 — ethics discussion (France) 364
 Medical Exhibition 571
 Medical and General Specialities Co. (Dentozone) 708
 "Medical hall," use of description 525
 — men, chemists as 105, 278, 564, 632, 665, 770
 — and pharmacists entente 106
 — and pharmacy ordinances (see name of country)
 — preliminary examination 301
 — reform (book) 232
 — register statistics 205
 — schools 304
 — treatment (book) 236
 Medicated wine licence wanted 14, (C. of E. letter) 55, 99
 — labelling suggestion 102
 — sale by chemists 464, (N.Z.) 481, 954
 Medicinal barks (U.S. bulletin) 514
 — plants, cultivation (Bohemia) 642
 Medicine (book) 15
 — chests, inspection (France) 332
 — progress in (Ellwood on) 722
 MEDICINE STAMP ACTS
 Body-names rule 68
 Dog medicines not liable 423
 Entire drug ("eascara tablets") 388, (in) capsules 454, (limitations) 947
 Gummed stamps not wanted 259
 "Known, admitted and approved" exemption 357, (corn-solvent) 388, (amm. quinine-capsules) 525, (reference to-formulary) 841, (addition of colouring matter) 879, (who-sell) 947
 Labels and titles (eye-lotion) 357, (shampoo "invaluable for headache") 388, ("Anti-Koff" pastilles) 525, ("Dr. Smith's mixture") 628, 659, ("Antiseptic throat-pastilles") 733, (nerve pills) 765, (mis-spelt names) 841, ("Tik") 841
 Licencée, applicability 68
 Medicated wines duty 423
 Opinions on (Tocher) 206
 Possessive case liability 841
 Prosecutions (see Legal reports)
 Stamps, design to be altered 521, 528, 541
 — objected to 439
 — gummed, objection 259
 Standard works, reference to 525, 650
 Statistics 575, (discontinued) 610

Trade-mark implies proprietary rights 591
 Yield of tax (H. C. quest.) 446, 505, 543
See also Proprietary medicines
 McLe, L. G. (death) 656, (will) 778
 Melhuish, T. B. (death) 337
 Mendeléeff memorial lecture 680
 Mendeléeff, Prof. I. (portrait) 680
 Mending, Ltd. (debentures) 431
 Meniskin lenses 817
 Menley & James, Ltd. (exhibit) 571
 Mental healing discussion 749
 Menthol cones, making 492
 — ointment 980
 Mentone, assistants at 317
 Mercer, N. (death) 367
 Mercer case (*see* Legal reports, Pharmacy Acts)
 Merchandise-marks Act Amendment Bill 709
 (*See also* Legal reports)
 Merck, E. (exhibit) 571
 Merck's annual report 570, 637
 Mercourettes 50
 Mercurial oil 121
 Mercury biniiodide poisoning 350
 — diphenyl, to make 120
 — in explosives, testing for 186
 — (metal) in Canada 702, (price) 750, 798, (exports, Leghorn) 854
 — perchloride (ampoules) 121, (decomposition) 454, (poisoning) Supp. Oct. 16, (standard) 682
 — subchloride, preparing 480
 — sulphate, preparing 480
 Merrick, A. B., & Sons, Ltd. 672
 Merrill's, Ltd. (receiver) 399
 Merson, G. F. (personal) 921
 Metal cleaning paste 35
 — polish, liquid 802, 980
 — waste, treatment (book) 413
 Methylated liniments (Australia) 809
 — spirit drinking 4
 — price-protection 694, 730
 — returning consignments 752
 — scheduling suggested 459
 — statistics 375
 — in Transvaal 887
 — use of 947
 Methylene blue, incompatibles 121
 Metol quinol developer 349, 755
 Metric tables Supp. Sept. 25
 Metropolitan Ambulances Bill 266
 Metropolitan Asylums Board (contract) 663, 845, (debentures) 314, (contracts) 663
 Mexico, chemical works 578
 Meyer-Sander Dental Supply Co. (exhibit) 438, (mysantol) 637, 748
 Microbes cinematographed 666, (as disease inducers) 614
 Microscope, construction explained 276
 — Shenstone on 276, 328, 360, 392
 — reagents 328
 — stains 392
 Microscopy (book) 715
 Micro-organisms as disease inducers 614
 Midland Chemical Works, Ltd. (receiver) 602
 Midland Dental Mfg. Co. (exhibit) 438
 Midland Pharmaceutical Association 495, 615, 665, 698, 907
 Migrain, incompatibles 121
 Mildew spots, removing 242
 Military pharmacists, etc. (*see* Army pharmacists)
 Milk, book on 413
 — poptonizing 560
 — secretion, to arrest 559
 — sugar, standard for 581
 — supply by chemists 885
 Millards, Ltd. 535
 Millward, F. (death) 962
 Milne, C. J. (death) 743
 Milroy, Dr. J. A. (appointment) 40
 Milton Apothecaries Co., Ltd. 338
 Mineral oil in vegetable oil, detecting 455
 — deblooming 879
 Mineral spring discovery (Port Elizabeth) 461
 — waters, definition 640, 677, 808
 — doctor sells 386
 — duty (Brazil) 739
 — fraud (France) 428, 738, 800, 847, 886
 — pharmacists' scheme for supplying 332
 (*See also* Aerated waters)
 Mineralogy (books on) 424

Minerals, recognition (book) 876
 Miners' lamp, sensitiveness 592
 Minor examination (*see* Pharmaceutical Society)
 Miol Mfg. Co., Ltd. (Miol pamphlet) 504
 Mitchell, N. W., & Sons, Ltd. (branded corks) 433
 Mitsui & Co. 707
 Mixture, saturated (dispensing) 659
 Mohr memorial 442, 668, 806, 918
 Moisture, detecting 950
 Monazite sand, exports (Bahia) 470, (Indian) Supp. Oct. 30
 Mond, Dr. L. (personal) 285, (port, and death) 926
 Monna Vanna, Ltd. 672
 Monte Carlo, assistants at 317
 Montgomerie & Co., Ltd. (malt extract) 673
 Montney Chemical Co. (exhibit) 651
 Montserrat Co., Ltd. (annual report) 707
 Moor & Partridge's "Food and Drugs Analysis" 478
 Moore, C. W. (will) 894
 Morgan, C. (before G. M. C.) 827
 Morgan, G. W. (death) 3
 Morgan, S. V. (interview) 138, (portrait) 137, 141
 Morgan, Sir Walter (portrait) 137, 141, (personal) 893
 Morgan Brothers, historical notes 137
 Moride & Varenne "Traité de la Savonnerie" (review) 236
 Morison, G. H., & Co., Ltd. 8, (debenture) 255, (Christmas perfumes) 748
 Morphine, dose 345
 — habit (book) 715
 — mfr. in India (H.C. quest.) 114
 — new test 486
 — poisoning Col. Supp. July 17, 176, 245, Supp. Sept. 4, Supp. Oct. 2, 835, Supp. Dec. 25
 — sale in Far East (ed.) 677
 Morris, D. (death) 256
 Morris, H. (baronetcy) 2
 Morris, W. A. (death) 707, (will) Supp. Dec. 18
 Morris, W. D., Ltd. (debentures) Supp. Dec. 18
 Mortar, ancient 920
 Mortgage inquiry 733, 801, 841
 Mortibus, Ltd. 44
 Mortimer's "Oil and Bromoil Process" 124
 Mossley Oil Co., Ltd. 636
 Mothers, tonic for 326
 Moths, destroying 423
 Motives, classified 202
 Motor medicine-chest 459
 Motor spirit debate in H. C. 709, 713
 — defined 52
 — mfr. 805
 — tax (H.C. quest.) 14, 48, 53, 87, 539
 — regulations 53
 (*See also* Petrol)
 Moule, W., Ltd. 924
 Monstache darkener 36
 — disadvantages of 895
 Moxa exports 818
 Moxon medal award 337
 Muco-solvent, misbranding (U.S.) Supp. Aug. 7
 Muhlenthaler, Th., & Co., Ltd. (concrete perfumes) 238
 Mumford, G. S., & Sons (appointment) 350
 Munkman, R. A. (death) 852
 Munro, J., & Co., Ltd. (debenture satisfied) 285
 Murphy, W., & Co., Ltd. 959
 Murray, Lang & Co., Ltd. (debentures) 431
 Muscatol 71
 Mushroom beds, lice-pest 766
 — paper on 936
 Musk, exports China 123, 168
 Muspratt, M. (personal) 758
 Muter's School (*see* South London School of Pharmacy)
 Muzica analysed 290
 Middleton's, Ltd. (winding-up) 464
 Myer's (Dr.) Dry-cleaning Processes, Ltd. 959
 Myloac 438
 Myrrh tincture, veterinary 734
 Mysantol dentifrice 748
 — tooth-brush 438, 637

N

N. R. CAPSULE SYNDICATE (exhibit) 650
 Nail-biting preventive 36
 — polish 390
 — dye 628
 Nancy Pharmaceutical Conference 74
 Natal :
 — Examination statistics 740
 Excise returns 740
 Health statistics 429
 Pharmacy Board 667, 810
 Railway rates 849
 University College founded 633
 Naphthalene estimation 729
 Naphthol ointment 734
 Nasal douche 456, (powder) 766
 National Association of Medical Herbalists 2, 329, 769
 National Association of Retail Druggists Supp. Aug. 7, 755
 National Cash Register Co., Ltd. (exhibits) 315, 650, (action against) 706
 National Cash Register Users' Protection Association 2, 38, 43
 National Chamber of Trade 952
 National Conference of Medical Herbalists 103
 National Dental Association 627, 659, 694
 National Drug and Chemical Co. of Canada, Ltd. (dividend) 45
 National Institution of Apprenticeship 589, 607
 National Radiator Co., Ltd. (Ideal radiators) 479
 National Soap Co., Ltd. 431
 NATIONAL UNION OF ASSISTANT PHARMACISTS 61, 98, 337, 551
 Birmingham branch 426, Supp. Sep. 25, 721, 905, 972
 Bristol branch 469, 611, 756
 Liverpool branch 515, 684, 828
 Newcastle branch 582
 London branch 647
 National University of Ireland, appointments 632, 665
 National Wholesale Druggists' Association (prosecuted) 367, 395, 674
 Natural Food Co. (exhibit) 437
 Natural Hair-oil Co., Ltd. 777
 Naval hospital dispenserships 314
 Naworth Castle (view) 79
 Naylor & Chappell on assay of glycerin 184, 216
 Nazareth pharmacy, Oporto, 192
 Neathercoat, E. T., on advertising 648
 Nebulique spray 708
 Neroli oil, standard for 681
 Nerve ointment 456, 524
 Neuhauss' developer 125
 Neuralgia in tropics, treatment 506
 New Brunswick Pharmaceutical Society 106
 New England Improved Ozonator Co., Ltd. 602, 636
 "New Favorita," cachous 437
 New Prost Syndicate, Ltd. 368, 399
 New remedies, incompatibles 121
 — in Japan 811
 NEW SOUTH WALES:
 Assistants Wage Board 74, 396, 532, 702, 847
 "Chemist," use of, on imported goods 86, 403
 Nurses' Registration Bill 565
 Poisons Bill 847
 Puro Food Act 249
 — — regulations 74, 397, 532, 565, 702, 809, Supp. Dec. 18, 954
 Saturday half-holiday movement 598
 NEW YORK:
 Pharmaceutical politics in 811
 NEW ZEALAND:
 Pharmacy Act prosecutions 396
 — Board 366
 Serums, duty on 396
 Sunday Labour Bill 847
 Newball & Mason 195, (letter) 882
 Newbery, A. Le B. (portrait) 159
 Newbery, L. (portrait) 159
 Newbery, F., & Sons (history of) 158, (C. & D. jubilee) 194, (Williams's shaving-stick) 657, (Christmas holidays) 918, 951

Newcastle pharmacies described 10
 — shipbuilding industry 179
 Newcastle-on-Tyne Pharmacists' Association 371, 612, 792, 866
 Newlyn, J. (presentation) 113
 Newman, R. (will) 757
 Newsholme, G. T. W. (personal) 427, 708, 883
 Ni-Verre Chemical Co. (shampoo powders) 817
 Nice, assistants at 317
 Nichols Chemical Co., Ltd. 531
 Nicotine insecticide (law case) 110, (H. C. debate) 573
 — manufacture (H. C. question) 48
 — poisoning 699, 865
 Nine oils 326
 Nitrates, facts about 758
 Nitric acid, lead in 93
 Nitsche & Günther (list) 537, (Meniskin lenses) 817
 Nobel prizes 768, 927
 Nobel H. (port) 12
 Noble, Sir A. (Albert Medal) 49
 Norris, Dr. (appointment) 74
 North British Crucible Co., Ltd. 777
 North British Rubber Co., Ltd. (rubber prices) 345
 North-East Lancs. Chemists' Association 426, 616, 830, 973
 North Stafford School of Chemistry 298
 North Staffordshire Chemists' Association 177, 687, 791, 972
 Northampton Association of Pharmacists 756, 866, 972
 Northampton Institute 313, Supp. Sept. 18, 918
 Northern College of Pharmacy 298
 Northern District Chemists' Assoc. (*see* Cape Colony)
 Northern Tooth Co., Ltd. 602
 NORWAY:
 — Pharmacy law, Supp. July 17
 Nottingham Chemists' Assn. 612, 905
 Nottingham School of Pharmacy 298
 Novocaine, incompatibles 121
 Nugent, M. R. (death) 603
 Nugget Polish (passing off case) 813, (price maintenance) 740, 776
 Nurses as dispensers (N.Z.) 249
 Nursing Exhibition 102
 — questions (booklet) 371
 — requisites, profit on 523
 Nutramide 651
 Nux vomica assay (Pinchbeck) 185, 228
 — and iron mixture (disp. note) 979

O

OAT CROP PESTS 38
 Oatine, commission case 430
 Obesity powder 560
 — tablets 592 (an inquest) 736, 883
 O'Brien, T. (exhibit) 437
 Oculist, not restricted to doctors 454
 Odol Chemical-works, Ltd. 279 (Paris branch) 779
 — in France 886
 — sample van (law case) 495
 Oesterle's "Grundrisse der Pharmakogenie" (review) 286
 Offord, T. H. (dead of arr.) 742
 Offord Patent Hygienic Truss Co. Ltd. (debentures) 111
 Oils analysis (book) 124
 — essential (*see* Essential oils)
 — fixed (*see* Fixed oils)
 — halogen absorptions 185, 230, 324
 — various (*see name of oil*, e.g. Lemon oil)
 Oldberg, Prof. (portrait) 415, (address) 463
 Oldfield, H. (will) 256
 Oldfield, Pattinson & Co. (list) 113, (oatmeal cream) 748, (rhyming order) 801
 Oldham, T. (dead of arr.) 602
 Oldham, T. (death) 707
 Oldham, historical notes 973
 Oldham Pharmaceutical Association 611, 685, 973
 Olive oil, adulteration 871, (circular) 944, (Sage on) 977

Olive oil crop (Corfu) 63, (Spain) 270, 838
— denaturised (U.S.) 395, 755
— exhibition 280
— exports (France) 66, (Italy) 48
— Sage on 928
— yield (Smyrna) 642
Olympia Oil & Coke Co., Ltd. 44

Onion drops, what are? 733
Ophthalmic neontorum to be notified 61
Ophthalmology, diploma 349
Opium, action of 471
— Committee 634, (report) 650, (ed.) 677
— crop (Afghanistan) 130, (Turkey) 913
— dose 546
— (Malay States) 573, 679
— exports (Persia) 332, (India) 678
— habit remedy 290
— import (Formosa) 6, (Hong Kong) 396, (Indo-China) 780
— market, propects 713
— monopoly (Straits Settlement) 462, (New Guinea) 686
— poisoning 126, 246, 250, 584
— sale (Liverpool) 769, (Transvaal) 4, (Persia) 395
— stocks, Smyrna (letter) 33
— suppression (H. C. quest.) 446, (China) 744
— trade in Far East 333

Opodelde etymology and origin 517
— solid, Rubenstein's formula 517
Oporto, pharmacies in 191
Oppenheimer, Sons & Co. (exhibit) 196, (prices of palatinoids) 320, 355, 385, (exhibit) 571
Optical bench, to fit up 349
— delusion of the aged 255
— diplomas 31
— instruction 312
Optician's difficulty 125
Opticians, Bill proposed 612, 776, 901, (Manitoba) 956
— professional 444
Optics, photographic (book) 715
ORANGE RIVER COLONY:
Chemists registered 171, 701
Hospital contracts 598
Illicit diamond buying charge, 532, 633
Industrial spirit notice 849
Medical and Pharmacy Board 41, 48, 429, 566, 887, (conference) 955
Pharmacy Ordinance prosecutions 566
Shop-hours' Bill 810
Spirit duties, payable in advance 366
— import regulations 171
Orders, bonus (see Personation cases and Warnings)
— curious Supp. July 24
Origanum oil (see Thyme oil) 7, 703, 775
Orwellon trade mark (law case) 7, 703, 775
Orr, R. (before G. M. C.) 855
Orridge B. B. (port) 160
Orridge & Co. (history of) 160
"Osowool" trade mark (law case) 7, 703, 775
Otto of rose adulteration (Parry on) 292, 452, (Umney on) 786, (Parry on) 839, (report) 977
— analysis 195
Bulgarian crop 186, (report) 977
— distilling 196
— — standard for 681
Ough, L. (personal) 9
Owbridge, W. T., Ltd. (Spanish warrant) 78, (exhibit) 515
Owen, Sir L. (portrait) 209
Owen & Son (described) 11
Oxalic acid, action on teeth 506
— poisoning Col. Supp. July 17, 126, 246, 350, Supp. Sept. 4, 427, 516, Supp. Oct. 2, 584, Supp. Oct. 16, 651, Supp. Oct. 30, 747, 793, 854, 884, 941, Supp. December 25
Oxford Chemists' Association 102
Oxyacetylene blowpipe patent 844
Oxygen equivalent 842
— inhalation, effect 663
— supplying 656
Oxylith generator 571

Ozone and oxygen equivalent 559
Ozobrome pigmenting compound tabloids 617

P

PACO MALT EXTRACT 437, 748
Padham Chemical Co., Ltd. 8
Page, S. D. & Sons, Ltd. (inset) 189
Paget, J. (death) 337, (will) 757
Paget Prize Plate Co. (phosphate paper) 349, 514
Paint, significance of 469
Paine & Co. (exhibit) 457, (report) 742, (Paco malt extract) 748
Paint mfr. (books) 734
Paints, sale of 133
Palmer & Co., Ltd. (fire) 277
Papier Poudré, Ltd. (inset) 190
Paraffin, liquid (colouring) 390, (perfumifer) 589
— ointment (Franklin's) 185, 226
— soda wash 86
Paragon diaries 438
Paraguay drug imports 687
Parasites (books on) 424
Parcels post packages, scrutiny Supp. July 10

PARIS:
British Chamber of Commerce 846
Central Naval Pharmacy Building 808
Early closing 281
School of Pharmacy Supp. Dec. 18

Society of Pharmacy 105, 953
Trade guilds, note 565
Parke, Davis & Co. (mercurettes) 50, (exhibits) 71, 196, 398, 429, 437, 571, (works visited) 582, (lecture) 611, (concert) 831, (Christmas holidays) 951, (whist drive) 951

Parke's Drug Stores, Ltd. (division) 602
Parker, C. H., Ltd. 777
Parkinson, R., & Sons (outing) 265

Parliament, course of business 372
— dissolution 858
— duration of session 505
— Election questions 952, 973
— prospects of session 180
Parliamentary representation cost 181, 273, 287
— for pharmacists 98, 115, 123, 260, 557, 583, 589, 590, 686, 687, 757, 967

Parnell & Sons, Ltd. (shop fittings) 27, (list) 195, (exhibits) 437, 515

Parogen 355, 415

Parrot tonic 560

Parry, A. (death) 852

Parry, E. J. (on petitgrain oil) 410, (on lemon oil) 875

Partnerships, dissolving 325

— and Pharmacy Act 947

Passive resisters, chemists as 458, 494

Passmore's Drug Stores, Ltd. 602

Pasta hamamelidis 335

"Patent" use of word (law case) 254

PAINT ACT:
Effect of (in Germany) 42

Guide to 371, 715, 805

Prosecutions (see Legal reports)

Solicitors' guide (book) 371

Patent leather mfr. 424

— medicines (see Proprietary medicines)

Patent Radium Blue Co., Ltd. 851

Patents (book) 715

— in Australia (C. of C.) 555

— in France 332

Patents for inventions (books) 371, 715, 805

Paterson, J. (personal) 885, (port. and death) 927, (funeral) 963

Paty & Co. (new factory) 569

Pax Trading Co. (bankr.) 501, 706, 850, 924

Peace, F. (bankr.) 77

Peach kernel oil, 929, 977

Peens, A. & F., Ltd. (inset) 190, (outing) 474, (poster objected to) 427, 459, (report) 567, 636, (meeting) 672, (new director) 675

Pearson's Antiseptic Co., Ltd. 68, (sale of creolin) 764

Peas, preserving 389

Peetorial linseed balsam 592

Peddie, Prof. W., on surface action 826

Peganum harmala alkaloid 808

Pennyroyal syrup 696

Pepper duty (Indo-China) 912

Peppermint essence 685, (what is?) 326

— oil, American, prospects 544, 577

— Formosa crops 129

— grown on sewage farm 725

Pepsinia, passing off case, 847

Pepsin chewing gum (law case) Supp. July 31, 255

— testing 628

Peptonising milk 560

Pereira medalist 547

"Perfection" soap trade-mark 671, 703, 775

Perfume duty in U.S. 436

Perfumers' guide (book) 477

Perfumery mfr. in Poland 238

Perhydrol 571

Periodic law, 680 (book) 832

Perlux 438

Peroxide face creams misbranding Supp. Aug. 7, 463

Perry, G. E. (port. and death) 177, 261

Perry's Powders, Ltd. (mortgages) 285

Personation cases (Porteous) 3

Perth, pharmacy in 428

Pertussin 652

Petitgrain oil adulteration 409, 410

Petroid cement 438

Petrol, to cover smell of 560

— as hair-wash 663, 664

— storing in London 882

— tax 266 (H. C. quests.) 114, 339, 401 (see also motor tax)

Petroleum Committee 594, 664, 919

— emulsion 335, (flavour) 685

— hair tonic 879

— prices 331

Petrolinimine 415

Petrosulfol, analysis 935

Petrozone, Ltd. 602

"Pets" toilet soap 854

Pettigrew, J. A. (before G.M.C.) 856

Pharmaceutical chemicals, mfr. (book) 332, 832

— chemists, claims of 945

— Conference (see British Pharmaceutical Conference)

— education and examination 293, et seq.

— preps. mfr. (book) 332, 832

PHARMACEUTICAL SOCIETY OF CAPE COLONY 75, 248, 280, 462, 598, 739, 773, 956

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN:
Bell scholarships 57, (particulars) 313

Benevolent Fund (suggestion) 583, (X-rayer on) 607, 610, 643

Certificate of qualification (see separate entry)

Company pharmacy question 565

Council candidates 551, 972

Council meeting 56, 261, 287, 545, 716, 863

Criticised 840, 877, 878, 972, 979

Curriculum 963

Evening meeting 746, 928

Examiners appointed 717

Herbarium prize 57, (particulars) 313

Laboratory, new 550

"M.P.S." use in N.Z. 74

Major curriculum 296

— examination, experiences 318

— pass list (Edinburgh) 78, (London) 78

Manchester scholarships 57 (particulars) 313

Minor certificate, new 84, 131, 241, 289

— curriculum 295

— experiences, Supp. July 24, 318, Supp. Sept. 25, Supp. Nov. 27

— pass-list (Edinburgh) 78, 599, (London) 78, 350

— statistics (Tocher's) 204

North British Branch:—

Executive meeting 13, 679, 688, 865

— Claims 442

Evening meeting 826, 969

Organisation meeting 648, 688, 791, 936, 972

Poison licensee inactivity 712

Poison-samples, methods of purchasing 773

President as examiner 98

Register, restoration to 765, 801

Scholarships 313

School of Pharmacy 297, (opening of session) 546,

(photographed) Supp. Nov. 6, 736, (smoking concert) 905

I PHARMACEUTICAL SOCIETY OF IRELAND:
Annual meeting 617, 643

Apprentices to companies (H.C. deputation) 45, 83, 98

Company pharmacy question 131, 241, 266, 272, 434, 619, 667 (see also apprentices supra)

Council meeting 77, 278, 433, 620, 746, 862

Examination notice 884

— statistics 617

Financial statement 620, 632

Pharmaceutical assistants' curriculum 299

— past-list 104, 632

Pharmaceutical licence curriculum 299

— exam. described Supp. Aug. 28, Supp. Sep. 25

— — pass-list 104, 632,

Preliminary examination pass-list 40, 621

Registered druggist (curriculum) 299, (pass-list) 104, 632, (letter) 657

Registers, statistics 617

Schools of chemistry and materia medica 300

PHARMACEUTICAL SOCIETY OF NATAL 566

PHARMACEUTICAL SOCIETY OF THE TRANSVAAL 107, 249, 366, 701

"Pharmaceutical Times," note on 136

"Pharmaceutische Zeitung" criticised 498

Pharmacist defined 434

— as title 99, 133, (origin) 140, (use of) 274, 361, (Gifford on) 763, 788

PHARMACISTS' REPRESENTATION COMMITTEE 115, 123, 260, 273, 287, 350, 557, 583, 590, 611, 613, 615, 649, 658, 686, 687, 721, 757, 791, 828, 936, 967 (see also Parliamentary representation for pharmacists)

Pharmacognosy (books) 236, (Tschirch) Supp. Sep. 25, Supp. Oct. 30

— Tschirch's address 548, 575

Pharmacology, Dixon's lecture 471

Pharmacopedia (book) 581

Pharmacopoeia Londinensis (reprint) Supp. Oct. 30, 805

(See also British Pharmacopoeia)

PHARMACY ACTS:
Administration criticised 108, 118

Books on 783, 819, 876

Certificates of qualification (see Certificates, etc.)

Enforcing against pharmacists 828

Evasion by unqualified persons 684

Firm-name on poison labels 821, (ed.) 822, 861

Glyn-Jones's book 783, 819, 876

History of 147

Infringements, number of 454

Medical exemption 947

Medical man not entitled to registration 68

Partnership position 947

Poison sale (see Poison sale and Poison schedule)

Prosecutions (see Legal reports)

(See also Poisons and Pharmacy Act)

Pharmacy Bill, suggested 952

— books 315

— betterment of 612

— boards (see name of Colony, etc.)

Pharmacy, etymology of 763, 895

— future of 386, (France) 564

— historical (Wootton's book)

- 478, (Sergeant and Beacock on) 972
 "Pharmacy" law case, appeal 668, (ed.) 675, 711, (sketch) 715, 752, 756, 769, (Bill suggested) 952, ("Xrayser" on) 963, 973
 —— discussions and opinions 788, 828, 855, 867, ("Xrayser" on) 781, (ed.) 784, (Harrington on) 792, 906, (Ph. Soc. on) 865, (Tocher on) Supp. Dec. 18, 963, (Snowden on) 973
 —— letters 799, 877
 — meaning of 799, (letter) 839
 — mediæval (paper) 866, 972
 — Ordinances (*see name of Colony, etc.*)
 — organisation (paper) 972
 — pot, inscription 592
 — professorships, endowment suggested 529
 — on ships 460
 — use of term by unqualified person 388, (ed.) 860, (Gifford on) 868, (legislation suggested) 898, 907, 913, (ed.) 932, 936, 937, 938, (letters) 945
 — "Vanity Fair" on 714
 Phenacetin, to colour 842
 — dose 346
 — harmful effects 119
 — as headache cure 389
 Phenazone mixture (coloration) 970
 Phenosalyl 372
 Phenyl-arsenic tetrachloride 120
 Phenyl-arsenous oxide 121
 Phenyl arsenites 120
 Phenyl-arsionic acid 120
 Phenyl-cacodylic acid 120
 p-Phenylenamedine as hair-dye 358
 Phila pin-teeth 438
 Philadelphia College of Pharmacy 499, 536
 Philippine Islands trade 912
 Phillips, B. (bankr.) 534, 706
 Phillips' (C. H.) Chemical Co. (milk of magnesia) 961
 Phoenix Co., Ltd. 502
 Phoenix Veterinary Supplies, Ltd. (mortgage) 535
 Phospheric trade-mark law case 334
 Phosphor, paste 560
 Phosphoric acid, lead in 93
 — derivatives (optically active) 825
 Photo-micrography (book) Supp. Sep. 25
 Photographic engraving (book) 805
 Photographic Salon 444
 Photographs, colouring 349
 Photography (books) Supp. Sep. 25, 715
 — early 149, 444, 568
 Phthisis (*see Tuberculosis*)
 Physics (books) 124, 315
 — new discoveries (Thomson on) 376
 Physiology (book) Supp. Sep. 25
 Physostigmine, reactions 21
Phytolacca decandra specimen 756
 Piccallilli 660
 Pickard, W., & Co., Ltd. (debenture satisfied) 77
 Pickup, R. L. (death) 431, (will) 636
 Pierce, F. M. (before G.M.C.) 855
 Pierce, G. F. (window-shelves) 253
 Pierre's Eau Dentrifice (price) 403
 Pigs, chill, treatment 455
 — fits in 733
 — hide-cracks 347
 Piles, treatment 242, 526
 Pill-coating, invention 157
 Pill, Tablet and Capsule Alliance (pills) 78
 Pilocarpine, standard for 581, 682
 Pimento exports (Spain) 825
 Pinchbeck on nux vomica assay 185, 228
 Pindar, J. W., & Co. (pill-machine order) 928
 Pineapple essence 389
 Pinnoxid Syndicate, Ltd. 175
 Pisacaro, analysis 935
 Pistols, sale of 805, 844
 Pitchblende Uranium and Radium Mines Syndicate, Ltd. 707
 Pituritin 572
 Plants, medicinal (*see Medicinal plants*)
 Plague disinfectant, cyllin as 817
 Plants, preserving, 332
 Plasticine 734
 Platinum mining (N.S.W.) Supp. Aug. 14
 — production (Russia) 912, (U.S.) 928
 Plucknett, C. J., & Co., Ltd. (exhibit) 438
 Plumbeum (*see Lead*)
 Pluggers, C. (death) 673
 Plymouth, Devonport and Stonehouse Association of Pharmacists 63, 277, 648, 721, 831
 Pneumatic hold-fast soother 432
 Pneumonia serum 900
Podophyllum, Emodi, activity 345, (Udney on) 385, (Millard on) 420, 486, (letters) 522
 Poetry (*see Rhymes*)
 Poil de Messine 395
 Pointet & Gerard (codex changes) 673
 Poison deaths in Ireland (331)
 — labels, use of 325
 POISON-LICENCES:
 Applications 22, 59, 88, 122, 175, 264, 282, 336, Supp. Sep. 4, 433, 463, 516, Supp. Oct. 9, 642, Supp. Oct. 16, Supp. Oct. 30, 720, 793, 869, 888, 940, Supp. Dec. 25
 — considered 22, 59, 88, 122, 175, 264, 282, 336, 360, Supp. Sep. 4, 433, 463, 516, 537, Supp. Oct. 9, Supp. Oct. 16, Supp. Oct. 30, 720, 753, 815, 869, 888, 940, Supp. Dec. 25
 — granted 23, 60, 88, 122, 175, 264, 282, 336, 360, 433, 463, 516, 537, Supp. Oct. 9, Supp. Oct. 16, 642, 720, 753, 793, 815, 940
 — refused 23, 60, 89, 123, 175, Supp. July 31, 265, 282, 336, Supp. Sep. 4, 537, Supp. Oct. 9, Supp. Oct. 16
 Authority granting 947
 Discussions and Opinions (Ph. Soc.) 13, ("Xrayser") 51, (ed.) 55, ("Eastern Daily Press") 55, (Ph. Soc.) 58, ("Eastern Daily Press") 61, (Aberdeen) 104, (West Riding) 123, 176, (Tocher) 203, 265, ("Xrayser") 287, (Bradford) 330, 336, (Aberdeen) 364, (Torquay Directory) 360, (Gadd) 370, (Cambridge) 516, (C. & W. Assoc.) 583, (Blackburn) 616, (Sargent) 649, (Ph. Soc.) 717, (W. Riding) 722, 756, 757, 788, (Snowden) Supp. Nov. 20, (Gifford) 830, (Ph. Soc.) 864, 973 (*see also Letters infra*)
 Fees fixed 23, 61, 336, Supp. Sep. 4, 433, Supp. Oct. 16
 Inquiries 35
 In Ireland 89
 Irish regulations 176, 433
 Letters 33, 67, 657, 693
 Local authorities approached 22
 Opposing 123
 Pharm. Soc., and 546 (inactivity) (ed.) 644, 712 (position) 675
 Questions in H.C., 87, 605, 650, 688
 Report from Scotland 788
 Statistics 406, 439, 490
 Poison register (origin) 51, (Spence's) 350
 POISON SALE, coroner on 833 (*see also Coronor*)
 — "Daily Express" on 646
 — in drug-stores 799, 914
 — inquiries 35
 — letters 731, 946
 — in market place 176
 (*See also next entry*)
 POISON SCHEDULE:
 — Belladonna plasters, position 591
 — Cantharides hair-wash 559
 — inquiries 99, 133, 325, 388, 454, 491, 879
 — Gadd on 185, 222, 225
 — heroin, position 765
 — Sainsbury on 341
 — Stavesacre ointment position 388 (*see also Poison sale*)
 Poisoning cases (*see name of poison*)
 — scene on stage 953
 Poisonings in Scotland 474
 — statistics (Australia) 772, (during 1908) 934
 POISONS AND PHARMACY ACT:
 Amendment suggested 952, 973
 Apothecaries' assistants' position (H. C. quest.) 27, 48, 54, 57
 Army dispensers position 48, 54, 87, 439
 Books on 113, 478, 783, 876, Certificates of qualification (*see separate entry*)
 Companies, position of 915
 — employment of inspectors by 423
 — use of titles by 423
 Co-operative societies attitude 104
 Coroner on 769, 833
 Discussions and Opinions ("Xrayser") 83, (Russell on) 331, 421, (Ph. Soc. Ireland) 619, (Gadd) 649, 675, (Hallett) 788, (Snowden) Supp. Nov. 20, (Hill) 828, ("Liberal Year-Book") 829, (Gifford) 868, (Tocher) Supp. Dec. 18, (Appleton) 938, (Macpherson) 938, 963 (*see also Poison-licences supra*)
 Drug stores (effect on) 426, (carrying on by pharmacists) 765
 Effect of 288, 426
 Irish regulations (*see Poison Licences*)
 Letters 453, 489
 Medical man's position 454
 Participants knighted 745
 Pharmacist title (*see separate entry*)
 "Pharmacy," use of word (*see separate entry*)
 Poison licences (*see separate entry*)
 Poison schedule (*see separate entry*)
 Questions in H. of C. 48, 87, 650
 Regulations (*see Poison licences, Irish regulations*)
 Sale of non-poisonous dips 242
 Shop management (*see Manager and Superintendent*)
 Superintendent (*see separate entry*)
 Title, use by companies 915 (*see also Pharmacist*)
 Wholesale trading (*see Pharmacy Acts*)
 Polden, G. W. (death) 49, (will) 438
 Polishall, Ltd. 5
 Pollard, E. W., on emulsions 184, 217 (H. C. quest.) 285, 339
 Pontier, A. (death) 395
 Poor-law dispensers, particulars 314
 Poppy heads, poisoning 919
 Portland cement, removing, 456
 Portman Teeth Institute, Ltd. 602
 Portsmouth Pharmacists' Association 516, 648, 789
 Portugal, pharmacy in 191
 — trade of 191
 Post-master, to become 389
 — chemist as 73
 Post-office, branch, obtaining, 389
 Potash, caustic, poisoning Supp. Sept. 4, Supp. Oct. 16
 — industry (Germany) 42, 90, 730
 — soap, neutral, to make 517
 Potassium bichromate poisoning 793
 — bromide, standard 581
 — carbonate, lead in 93
 — chloride, explosion 427
 — manufacture in Japan 331, 365, 740
 — cyanide poisoning 28, 170, 246, 371, Supp. Sep. 4, 467, 516, Supp. Oct. 2, Supp. Oct. 16, Supp. Oct. 30, 710, 747, 793, 810, 854, 941, Supp. Dec. 25
 — iodide and bismuth, salicyl. mixture (dispensing) 388
 — standard for 581
 — permanganate poisoning, 170, 516
 — phenyl-arsenate 120
 — sulphate, lead in 93
 — and tartrate, lead in 93
 Potato disease to be notified 361
 — spray 35, 100
 — black seab remedy, 459
 — spraying regulations (Tasmania) 809
 Potent drugs, doses 346
 Pottage, J. C. (death) 91
 Potter & Clarke, Ltd. (outing) 371, (five barks jubes) 403, (asthma cure) 479, (P. & P. Act) 679, (Manchester branch) 793, (dinner) Supp. Dec. 18
 Poultices, rate of cooling 517
 Poultry, medicines for, Supp. July 10
 — diseases (book) 734
 — medicine chest 916
 — spice 696
 Powell, W. (portrait) 160
 Powell's balsam (history of) 160
 Pratt, J. (death) 852
 Preliminary examinations 293, 294
 Premier Bottle Seal Co., Ltd. 959
 Premier bottle-washer 650
 Premier labeller 650
 "Prescriber" note 27, 853
 Prescribing by chemists, a duty 470
 Prescribing chemists, discussion 866, (Cavanagh on) 895, prosecuted (N.Y.) 888
 — contrasted 100 years ago 207
 — sixty years ago 790
 — variation 183
 Prescription book, optical, need for 901
 — charges (N.S.W.) 598
 — ingredients, proprietary 730
 — problem, Col. Supp. July 17, 237, 336, Supp. Sep. 11, Supp. Sep. 25, 606, 683, 724, 832, 935
 — reading (books) 315
 Prescriptions, preventing repetition 753, 954
 — and Sale of F. & D. Acts 362
 Preservatives in cream (L.G.B. report) 473
 — in food (France) 332, (H.C. quest.) 401, (recommendation) 390, (use of) 802
 Preston Chemists' Association 124
 Price's Patent Candle Co., Ltd. (report) 175, (Cape factory) 248, (annual meeting) 466
 Price maintenance (law case) 106, 670, 740, 776, (U.S.) Supp. Aug. 7, Supp. Sep. 11 (*see also Proprietary Articles Trade Association*)
 Price-problem competition 522, 558, 575, 627
 Price-protection schemes, legality (U.S.) Supp. November 6 (*see also Price-maintenance and Proprietary Articles Trade Association*)
 Price-tickets, importance of 485
 Prices of drugs, compared 435, 471
 Printing out parchment 26
 Prisms in spectacles, use of 901
 Prison dispensers 314
 Procter, Son & Clague (described) 10
 Profit, estimate of 387, 766
 Prolacto 572
 Propolis 455, 486, 524
 Proprietary articles, co-operative manufacture scheme 68, 356, 357, 361, 386, 613, 764 (*see also United Chemists' Association, Ltd.*)
 — preventible loss on sale (letters) 695, 764, 800, 840
 PROPRIETARY ARTICLES TRADE ASSOCIATION:
 Additions to list 238, 370, 504, 673, 817, 960
 Annual meeting, Supp. July 10
 Annual report 24
 Cutting prices (Oldham) 494, 583
 Removing from list 936
 (*See also Anti-cutting and Price-protection*)
 PROPRIETARY MEDICINES:
 Advertisements in Japan 333
 Alcohol in (U.S.) 105, 954
 Analyses ("B.M.J.A." book) 478, 643, 715, 720
 Books on (B.M.A.) 478, 643, 715, 720, 876
 Discussions and opinions (Tocher) 206, (Broadhead) 583
 Composition altered 823
 Co-operative mfr. scheme 68, 355, 357, 361, 386, 613, 764
 Defended (C.C.) 41
 Demand for, in India 365
 Formula publication, effect of 840
 Ingredients, indicating 954
 Letters on 324, 489

EPROPRIETARY MEDICINES (cont.) :—
Misbranding (N. Dakota) 463
In novel 83
Origin in Japan 107
Papers on (Dr. McWalter) 541,
828
Preventable loss on 695, 764,
800, 840
Prices in Australia 557
Questions in H. of C. 372, 401,
439, 481, 511, 538, 827, 858,
Regulating (Germany) 366,
(Japan) 621, (W. Aust.) 702
Sale by chemists 132, 356, 386,
590, 770
in Manchuria 365
Select Committee suggested
752, 784
Stamp tax (see Medicinal
Stamp Acts)
Tax in C.C. 6, 106, 248, 667,
759, 887, 955
See also Cape Colony and
Pharmaceutical Society of
Cape Colony
— in Japan 333
Testimonial, fictitious (law-
case) 813
Trade in Corca 497
Venezuela imports 574
Walsh's book 876
Whichever size pays best 610
Propyl-arsonic acid 120
Proset, Ltd. 959
Prosserian Co. (soap stand) 432
Prossers, Cash Chemists, Ltd.
707
Protection, effect on chemical
industry 260
Trunella, etymology 643
Prunus serotina (Hallaway on)
969
"russie" acid (see Hydrocyanic
acid)
Ptisane, etymology 643
Ptomaine, etymology 643
— poisoning, first aid 627
Public Pharmacists and Dis-
pensers' Assoc. 722, 828
Pulchrit 187
Pulney Andy, Dr. (death) 816
Pulseilla, etymology 643
Pulver, etymology 643
Pumice, etymology 643
"Pinch" cartoon of 1858 232
Pure Chemical & Spice Co., Ltd.
8
Purgative pill 72
Purge, etymology 643
Purifol Compounds, Ltd. 502
Purves, S. (death) 337
Pynerzone (prosecution) 74
Pyramidon, incompatibles 121
— trade mark (France) 641
Tyrerithrum flowers, standard for
580
Pyro-soda developer 26, 125
Pyrogallol developer 560
Pyriodione, to make 121

Q

QUALIFICATION CERTIFICATES (see
Certificates of Qualification)
Quant, E. (lecture) 844
Quart, defined (H.C. quest.) 446
QUEBEC:
Assistant's qualification, Supp.
August 28
Pharmaceutical Association 5,
106, 702
Pharmacy Act cases 5, 956
Queensborough Glass & Bottle
Works, Ltd. 111
QUEENSLAND:
Medical Bill 5
Pharmaceutical Council 335
Quicksilver (see Mercury)
Quillaja bark, saponin in 492
— characters of 443
Quim, C. W. (note on) 149
Quinine Bitters Mfg. Co. (revised
prices) 817
Quinine, demand (Turkey) 786
— distribution (India) 634, 645,
(Manitritus) 886
— ferri tart. and syr. limous
mixture (dispensing) 325
— and iron tonic 456, 492
— in malaria 19, 398
— monopoly (Italy) 633
— report (Java factory) 653
— revenue (Italy) 534
— salts, test for purity 746
— and sp. ammon. ar. in mixture
(dispensing) 765

RABBITS, TREATMENT OF Supp.
July 10
Rabies treatment in India 878
Radiant light and heat (hook) 124
Radio-activity (book) 236
Radiographing lion's paw 807
Radiotelegraphy through the earth
15
Radio-thorium 126
Radium (Armstrong on) 403, 405
— book on 124
— factory at Limehouse 594, 631
— large order 15
— lecture by Soddy 758
— lost (Paris) 281
— production, Joachimsthal Supp.
September 11, 508
— purchase 393
Radus Mfg. Co., Ltd. (receiver)
815, (winding up) 851
Rafferty's "Radio activity" 236
Railway rates for drugs 435
— inequality 436
— law case 108
— memorial 578, 699, 718, 736,
788, 965
— Natal 649
Raimes & Co. (Christmas hol-
days) 951, (spirit duty) 960
Raimes, Clarke & Co., Ltd.
(outing) 265
Raines Patents Mfg. Co., Ltd. 815
Rainsbottom, Dr. (personal) 249
Ransay, Sir W. (degree conferred)
427, 651, (personal) 854
Randamite 879
Randells (Malsters) Ltd. 777
Ransom, F. (portrait) 231, 263
"Rapid" sifters and mixers 437
Rat destruction (book) 124
Rat virus (causes gangrene) 329,
(report 346, (tests) 505
Rate valuation, basis 559
Rating warranty case 923
Rational Remedies, Ltd. 175, (de-
bentures) 338
Ratto 537
Rawlinson, J., & Co., Ltd. 255
Ray-liver oil 901
Raynaud, C., & Co.'s agents 197
Read, Holliday & Sons, Ltd.
(report) 431
Receipts, Spon's Supp. August 14
Reciprocity of dental certificates 5
— of medical diplomas (S. Africa)
429
— of pharmaceutical certificates
(Natal) 57, (N.Z.) 334, 439,
(Natal) 566, (Hill on) 791, (S.
Austr.) 809
Reckoner, wages (book) Supp.
September 25
Record Film Trading Co., Ltd. 44
Red Cabbage pickle 424
"Red Cross" of Geneva (origin) 4
Red-water cure 424
Rees, J. (death) 337, (will) 399
Refractive indices of fluid extracts
(Cowles and Broadbent) 185, 227
Registrar-General's report 934,
(Ireland) 331
Reinhardt's "120 Years of Life"
124
Reitmeyer & Co. (synonyms) 504,
(antisclerosin and diabetescrin)
674
Remington, A. E. (death) 565
Remington and Lancaster ou halo-
gen absorption of oils 185, 230
Research, object of 208
Resorcin ointment 842
Respiratin trade-mark (Japan) 811
Restraint of Trades (Shops) Bill
14, 51, 285, 709
Reunion products, report 271
Reuter, R. J. (rubber prices) 345
"Revelation" teeth 438
Review of books (see name of
author or subject)
Reynolds, S. K. (death) 256, (will)
503
Reynolds & Branson (exhibit) 196,
(magnalium balances) 505
Rheumatism paint 560
— pills 390
— treatment by bees' stings 584,
963
RHODESIA:
Medical ordinance prosecutions
499
Rhymes ("After-dinner Atti-
tudes") 647, 684, ("An Alluring
Prospect") 6, (Annual cold)
Supp. December 18, ("Dawn on

the Cotswolds") 459, ("Five
Decades") 237, ("North to the
South") 591, ("Pessimistic
Paean") 470, ("Pharmaceutical
Nursery-rhyme") 350, ("The
Seedsmen's Lament") 380,
("Song of the Pill-machine")
Supp. December 4, ("Tocheritis")
265, ("What's in a Phar-
macy") 915, ("Will History
Repeat Itself?") 758, ("A
Word of Cheer") 947
Richards, J. M. (personal) 39
Richardson, S. (opticians' outfits)
281
Rideal, Ltd. 368
Riedel, J. D. Co. (new offices) 8,
338
Riker, J. L. (death) 177
Riley Manufacturing Co., Ltd.
(fire) 392
Ringworm treatment 102, (x-ray)
492
Risicoll, Ltd. (new factory) 569
Ritchie, J. (death) 91
Riviera, assistants on 317
Robertson, G. S. B. (deed of ar-
rangement) 502
Robinson, R. (portrait) Supp. Oc-
tober 30
Robinson & Sons, Ltd. (history)
160
Robst mfr. 638
Rockets, whistling 916
"Rocka" Natural Tonic Co., Ltd.
890
Rogers, F. A. (musciano) 71, (ex-
hibit) 196
Rollot, Jacques (personal) 738
Romau wall (views) 81, (visited)
250
Roscoe, Sir H. E. (portrait) 745
Rose Reuddy Co., Ltd. 814
Rosebery, Lord, surgeon ancestor
920
Ross, Major R. (medallist) 844
Ross, Rev. H. (death) 503, (will)
671
Rotherham Association of Phar-
macists 496, 816
Rothschild & Baker (exhibit) 437
Roumania Health Bill 616
Roup powder 526
Rowland, E. E. (will) 535
Rowell, P. F. (personal) 102, 844
Royal Botanic Society (financial
crisis) 2, 51
Royal College of Physicians admit
women 263
Royal Colleges of Physicians and
Surgeons (examination hall) 361
(admission of women) 87, 180,
265, 650
Royal Commission on Whisky and
other Potable Spirits (report)
291
Royal Dispensary School (Edin-
burgh) 298
Royal Institution 882, 951
Royal Photographic Society 514
Royal Society (medals) 768, anui-
versary 844
Royal Society of Arts 49
Rubber auctions 450
— coagulant (Elias) 350, 771
— colouring 492
— cultivation (book) 413
— goods, price advances 333
— history of 373
— latex coagulant 350, 771
— prices, advance (ed.) 342,
(letters) 345, 370, ("X-rayser"
on) 373, 692
See also Indian rubber
Ruhwol Co. (show-card) 433
Rue oil, standard for 681
Rudduck & Co. (inset) 190
Rumer Ecklonianus (Tutin and
Clewer on) 971
Russell, C. I. (portrait) 12
Russell, J. (cartoon) 420
Russell, Dr. W. J. (death) 778, 816
Russia pharmaceutical curriculum
315
Rutherford, Prof., on atomic
theory 402
Ryland, H., Ltd. 602

S

SABADILLA, ETYMOLOGY 181
Saccharin Congress (see Inter-
national Anti-Saccharin Con-
gress)
Saccharin Corporation, Ltd. (de-
benture) 111, 438, 570, 571, 651
Saccharin, harbouring 329, 919
— patents, infringement cases
254, 361, 813, 889
— smuggling 108, 361, (Switzer-
land) 810
Sachsen, E., & Co. (agents) 794
Sadler & Co., Ltd. (report) 466,
(annual meeting) 502
Saffron, etymology 181
standard for 580
St. Andrews radiators 538, 817
St. Andrews University (gift to)
808
St. Cuthbert's Co-operative Asso-
ciation, Ltd. 496, 597, (profits)
629, 632, 634, (slander action)
771, 885
St. Germain's tea 560
St. Petersburg, municipal phar-
macy 499
St. Vincent arrowroot 485, 762,
(exports) 912
St. Vincent's Association 612
Sal admirabile, note 181
— aeratus, note 181
— alembroth, note 181
— enixon, note 181
— polycrestum, note 181
— prunella, note 181
Salad oil, definition 181
— what is? 730, 763
Salamander as corn-cure 471
— blood (note) 181
Salamandrin, snake poison anti-
date 471
Salary, etymology 181
SALE OF FOOD AND DRUGS ACT:
Amendments suggested 102
Cripps on 789
Fines, inadequacy of 595
Informal samples 168, (Bir-
mingham) 244, 789
Prevents negligence 278
Prosecutions (see Legal reports)
Sampling method 393
(See also Analysts' reports and
Local Government Board
Sale of goods, when compulsory 35
Salford Pharmacists' Association
788, 807, 831, 936
Salicylic acid solubility (disp.
note) 915
— standard for 681
Salle, H., & Co. (French drugs)
570, (cinchona article) 891,
(agents) 960
Salt Compensation Board 805
— etymology 181
Salt of lemon 456
— — poisoning 28, 126, 170,
350, 371, Supp. Sept. 4, 516,
Supp. Oct. 2, Supp. Oct. 30, 747,
Supp. Dec. 25
— of sorrel poisoning 371
Saltpetre mfr. (France) Supp.
July 24
Salzmann, Dr. H. (port.) 498
Sambrook, W. (Mayor) 744
Sample boxes, suggestion 358
Samuel, Herhert, M.F. (personal)
14
San Remo, assistants at 317
Sanafin detergent 651
Sanctuary oil 880
Saud prize (France) 395
Sandal, etymology 181
Sandalwood capsules (content)
421
— exports (Macassar) 242, (New
Hebrides) 255
— oil, standard for 581, 681
— production (Mysore) 956
Sandarac, etymology 181
Sanders, W. J. (deed of arr.) 284,
(death) 369
Sangers (confernee) 2, (shop-
fitting) 281, (on prop. med.
profits) 451, (profits of prop.
meds.) 471, (dinner) 868
Sangster, A. (death) 431, (will)
671
Sanitary Floor Co., Ltd. 8
Sanitary Inspectors' Association
102
Sanitas Co., Ltd. (Indian agent)
68, (exhibit) 71, (dividend) 707
Sanitas Creoside sheep-dip 335
Sanitol Chemical Laboratory Co.
(law case) 106
Sanitol ester (Bayer's) 195,
(patent revoked) 329
Santonica, etymology 181
Saponin solution 492
Sarsaparilla, etymology 181
— exports (Honduras) 322
Sartolin, Ltd. 924

- Sassafras, etymology 181
 Satinwood, chloroxylonine from 126
 Saturday half-holiday (N.S.W.) 598
 Sauerin (liquid culture) 853, (tablets, activity) 50
 Saunders, C. E. (personal) 169
 Saunders, H. G. (death and port.) 49, (funeral) 72
 Sausage-colouring 628
 Savin oil, standard for 681
 — standard for 580
 Savory & Moore (exhibit) 196
 Sayers, F. W. (personal) 568
 Sayoto Co., Ltd. 399
 Seales, F. S. "Microscopy" 715
 Seales, new regulations 408, (letter) 452, 524, 626, (discussion) (Hull) 469, 486, 491, 492, (Gadd) 507, 513, 515, (Ph.Soc.) 546, 559, 564, (MacMahon) 576, 582, 591, 612, 628, 647, (Ph.Soc.) 717, 733, (M.C.C.) 815, 947
 Seamouney, standard for 580
 — resin, Cowie on 970
 Scarborough Association of Pharmacists 721, Supp. Dec. 18
 Scarlet fever epidemic (cost) 595, (treatment) 102
 Schener's trieresol-formalin paste 438
 Schleimann's Oil and Ceresine Co., Ltd. (petroleum products) 637, (pocket diary) 930
 Schmidt, Prof. E., on Japanese aconite 608
 Schneider (Franz) & Co. (inset) 190, (exhibit) 438
 Scholarships, list of 313
 School-children, spectacles supply 102, 393, 426, (book) 581
 — sight (testing) 329
 School Hygiene Publications Co., Ltd. 338
 Schutze, F., & Co. (rubber prices) 345, (fire) 883
 Science degrees 310
 — museum wanted 71
 — schools, list 311
Seilla autumnalis at Clifton 426
 Scotland, Pharmacy Act wanted 442, 490
 Scott, J. W. (death) 503
 Scott & Co.'s successors 188
 Scott's emulsion in N.S.W. 702
 Scottish Optical College 313
 Scottish Vileanite Co. 707
 Scrubb & Co., Ltd. (Royal warrant) 748
 Scruton, R. (presentation) 637, Supp. Oct. 30
 Sealax cleanser 651
 Sealing-wax moulds 766
 Seaby, Prof. Wm. (portrait) 673
 Sea-water as serum 509
 "Seaweed Tonic" police case 494
 Secret remedies (see Proprietary medicines)
 Securitas Non-inflammable Products Co., Ltd. 924
 Sebaceous cyst, treatment 592
 Seedsman and sale of poison (see Poison licensees)
 Seidlitz powders, etc., death 362
 Self-developing Plate Co., Ltd. 959
 Selling a business 787, (Jay Mack on) 348, (letter) 914
 Seltzer-water powder 456
 Seltzogene charges 842
 — lemonade in 389
 Serum, sea-water as 509
 — therapy (book) 715
 — mfr. (lecture) 937
 Serums, duty (N.Z.) 396
 Sesame oil, prep. and uses 916
 — tests 36
 Setons, dressing 733
 Setwall, antiquity of 931
 Sewer, inflammable vapour in 169
 Shampoo, dry 592, 802, (acetone as) 842, (liquid for dogs) 980
 — powder 36, (perfume) 100, 424
 Sharon Chemical Co., Ltd. (receiver) 535
 Sharp, A. P. (death) 673
 Sharp, W. (death) 778
 Shaw, W. (before G. M. C.) 855
 Shaw-Mackenzie, C. F. D. (before G. M. C.) 855
 Shaw inhaler 708
 Shaw Remedies Co. (exhibit) 571
 Sheep ailment (blain) 559
 — black-water remedy 766
 Sheep-dip, colouring 592
 Sheep-dipping regulations (Ireland) 104, 596
 Sheep-dips, duty (U.S.) Supp. Aug. 7
 — husk mixture 492
 — marking sticks 660
 — tapeworm in 242
 — wireworm remedy 801
 Sheep's wool tinting 390
 Sheffield Chemists' Trading Association 515
 Sheffield Hospital, prescriptions dispensed 844
 Sheffield Pharmaceutical and Chemical Society 496, 515, 529, 550, 611, 647, 757, 868, 938
 Sheffield Society of Ophthalmic Opticians 38
 Sheldon & Westwood's "Business Knowledge" (book) 646
 Shellac, Burma factory 871 (*see also* Lae)
 Shenstone, J. C., on the microscope 276, 328, 360, 392
 Sherley, A. F., & Co. (exhibit) 393
 Skiford & Co. (new Otto) 195, 281
 Shipping goods (book) Supp. Sept. 25
 Shirley, A., as box expert 951
 Shirley, J. (presentation) 5
 Shirley Bros., Ltd. (list) 350
 Shoemaker's ointment 35
 Shop Hours Act (Stockton) 721
 Shop Hours Bill (O. R. C.) 810
 — demonstration 528
 — (letter) 763, ("X-rayser" on) 781
 — prosecutions (Montreal) 702
 — shorter, needed 763
 — Stockton 882
 — signs (Portsmouth case) 330
 — windows (*see* Window-displays)
 Shops Bill 87, 267 ("X-rayser" on) 287, (ed.) 289, (National Union of Shop Assistants) 361, 426, (assistants' resolution) 426, (demonstration) 528, (N. W. A. P.) 551, (Assistants' Union) 562, (N. B. Branch on) 679, 688, (letter) 731
 Shorrock, R. (portrait) 616, (personal) 927
 Show-carboys (origin of) 524
 — (colour for) 627
 Show-card fixers 659
 Sicily produce, report 838
 Side-lines for chemists 788
 Siemens Bros. & Co. (temperature recorder) 196
 Sight-testing (book) Supp. Oct. 30, (hint) 901
 Silk, artificial 904
 Silkworm gut, history 395
 Silver-braid, restoring 766
 Simeox, E. (death) 337
 Simondley Springs Bottling Co., Ltd. 111, 255
 Simplex Stopper Syndicate (exhibit) 650
 Simpson, T. (portrait) 263
 Simpson, W. (portrait) 178
 Singapore (*see* Straits Settlement)
 Skating carnival, proprietaries at 918
 Skelton, J. H., Ltd. (mortgage) 555
 Skin cream 335
 — preservative 456
 — ointment (green) 36, 766
 Slack, B. (company registration) 350
 Slug powder 766
 Small-pox microbe 242
 Smith, A. S. (presentation) 366
 Smith, F. A. U. (personal) 178
 Smith, F. A., Ltd. 399
 Smith, J. (death and portrait) 536, 892
 Smith, J. A. (Gloria tonic) 190
 Smith, S. (portrait) 547
 Smith, Sir T. (death) 569
 Smith, T. & H., Ltd. (Christmas holidays) 951
 Smith, T., & Sons, Ltd. (receiver) 636, 742
 Smith's Curexma skin ointment 403
 Smith's dental anaesthetic 928
 Smyrna, British Chamber of Commerce 739
 Snake-bite outfit 238
 — eures 480
 Soamin 476
 Soap-bark, characters of 443
 Soap demand in Tripoli 494
 — imports (Russia) Supp. Aug. 14
 — industry (Japan) 107
 Soap liquid 36, (use of) Supp. Dec. 18
 — making (book) 236, (paper) 936
 — potash, to make 517
 — standard, regulations (N.S.W.) 89
 — tincture 134
 Society of Apothecaries, assistants' examination (experience) 274, (curriculum) 300, 698, (pass list) 245, (medical legislation) 851 (*see also* Apothecaries' assistants)
 Society of British Dentists 698
 SOCIETY OF CHEMICAL INDUSTRY: Birmingham section 919
 Canadian section 738
 Liverpool section 769
 London section 729, 904
 Nottingham section 730, 827
 Scottish branch 666
 Society of Chemist-Opticians Supp. July 31
 "Society" can de Cologne 189
 Society of Extractors and Adapters of Teeth 437
 Soda, caustic, mfr. (Japan) 331
 — crystals, standard for 682
 — fountain guides 35, 715
 Soddy's "Interpretation of Radium" 124
 Sodium acetyl-*p*-amino-phenyl arsonate 477
 — *p*-aminophenyl arsonate 476
 — arsenilate 476
 — benzoate as preservative Supp. Aug. 7, Supp. Sept. 11
 — benzoyl-acetyl-arsanilate 477
 — benzoyl-arsanilate 477
 — bicarbonate, lead in 93
 — and liq. bismuthi mixt. (dispensing) 388
 — standard for 581, 682
 — bisulphite liquor 35
 — cacoedylate (in pills) 867, (solution) 194
 — citrate aerated water 242
 — di-iodo-methyl arsonate 20
 — exports (Bergen) 350
 — hydrate, standard for 581, 682
 — mono-methyl arsonato 20
 — phenyl-arsenate 120
 — reaction 903
 — sulphate, standard for 682
 — sulphite solution, (decomposition) 125, (keeping) 444
 — tetra-iodoeacodylate 20
 Soft soap, to make 517
 Soka bottle-washer 650
 Solaco toilet casket 854
Solanum Dulcamara poisoning Supp. Oct. 2
 Solignum stains 72
 Solport Bros. (list) 50, 78
 Sonnoform 438
 Sorby research fellowship 3
 Sol. iodo-tannico phosph. 194
 Sour-milk treatment (book) 124, (restaurant bill) 278, (book) 478, (salo by dairies) 769, (therapy) 235, 931
 SOUTH AFRICA:
 Colonial Exhibition 667, 739, 887
 Dentistry, regulating 914
 Medical Congress 366, 398, 429
 Pharmacy in 625
 — federation 964
 Reciprocity of medical diplomas 429
 Society for Adv. of Science 633, 667
 Trade statistics 849
 Union of 964
 (*See also* Cape Colony, Natal, Orange River Colony, Rhodesia, and Transvaal)
 SOUTH AUSTRALIA:
 Food and Drugs Act 74, 334
 South of England College of Pharmacy Supp. July 3, 297
 South London School of Pharmacy 297, (scholarships) 314, Supp. Sept. 18
 Southall Bros. and Barclay, Ltd. (mirror adv.) 27, (decorations) 39, (mirror offer) 253, (official quotation) 368, (radium) 393, (Christmas perfumery) 604 (dispensing scales) 637, (fire alarm) 698, (list) 817, (theft from) 845, (widow show) 952
 Southall's "Materia Medica" (review) 236
 Southern Nigeria report 271
 Soya beau-meal, law case 104
 — oil Supp. Sept. 11, 477, 929, (duty, U.S.) 885
 — uses of 898
 Sozodout price protected 238
 SPAIN:
 Pharmacopoeia 21
 Pharmacy reforms 810
 War gifts 499
 "Spatula" soda-water guide 715
 Spectacle-makers Co. (practical test) 3, (exam.) 71, (examination results) 169, (curriculum) 312, 349, 615, (dinner) 723, 768, 802, (pass-list) 844, 882, 918
 Spectacles, explaining to customers 444
 — objections to wearing 652
 — tinted, improvement suggested 444
 Speedwell syphon-top polisher 650
 Speier's cement 438
 Spence's poison register 350
 Spiders, paper on 721
 Spinal anaesthesia (Jonnesco's method) 783, 806
 Spirit Act, application of exemption 15
 — denaturising, 772 (Transvaal) 921
 — distillers profit 573
 — drawback (H. C. quest.) 114
 — duty on British imports (U.S.) 436, 446, 481
 SPIRIT DUTY INCREASE:
 Amendments, proposed 14
 Discussions and opinions ("X-rayser") 181, 287, (Hull) 469, ("Revenue Review" on) 513, (H. C.) 538, 573, (Symes) 589, 685
 Letters on 67, 589
 Contracts, effect on 73, 104, 246, 550, 807, 845, 884
 Customs notice 908
 Derivatives, effect on 435
 Effect 562
 Hospitals and 87, 575
 Protest 829
 Questions in H. C. 1, 68, 87
 Rebate suggested 71, 575
 — unworkable 260, 262
 Rejection of Finance Bill 713
 Yield (H. C. quest.) 339, 543, 573
 (*See also* Finance Bill)
 Spirit exports (India) 384
 — permit not sent (law case) 849
 — price 838, (Germany) Supp. Sep. 11, Supp. Oct. 9, 624
 — taxes (Germany) 42, 259, (how collected) 979
 — from wood, preparing 738
 — revenue from 339, 543, 573
 (*See also* Alcohol, Methylated spirit, and Industrial spirit)
 Spirituous medicines:
 — import regulations (O.R.C.) 171
 — sale of 15, 35
 — by non-chemists 454, 788, 866
 Spirit, ammon. amm. and quinine in mixture (dispensing) 765
 — aetheris nitrosi, preparing 292
 — saponatis 134
 Spon's "Workshop Receipts" 478
 Sponge-fishing, Florida Supp. Aug. 7
 Spottiswoode & Co. Ltd. (inset) 190
 Spratts' Patents, Ltd. (inset) 190, (exhibit) 393, (almanac) 853
 Springfield Chemical Co., Ltd. (receiver) 502
 Squill, bio-chemical tests 214
 Squint, correcting 125
 Stage, pharmacoit representation 771, (poison-scene) 953
 Stamp Acts (*see* Medicine Stamp Acts and Legal reports)
 Stamp liability (*see* Medicine Stamp Acts)
 Standard Tablet and Pill Co. (inset) 190, (Bulgarian health chocolates) 637
 Standards for drugs 577, 579
 — for non-official drugs (report) 416
 Stanley, W. F. (death) 349
 Stansfield, J. L. (bankr.) 959
 Starch, drying 134
 — granules, identifying 328
 — in infants' food 752
 Stedman & Co., Ltd. 777
 Steel analysis (book) Supp. Oct. 30
 Steele's bridge-repair outfits 438

Stephenson (Stephens), Ltd. 672
 Stepney bottle-washer 650
 Sterilex enema 238
 Stero, Ltd. 431
 Stevenson & Howell, Ltd. (outing) 24, (inset) 190
 Stewart, A. W. (appointment) 40
 Stewart's "Advances in Organic Chemistry" (review) 236
 Stings, treating 134
 Stockport Pharmacists' Association 244, 611, 756, 926
 Stock, indexing system 939
 — taking (inquiry) 386, (Fish on) 451, (Jay Mack on) 422, (letters) 489, 522, 557, 659
 Stomach contents, analysis 18
 — diseases (book) Supp. Sep. 25
 Stomachic mixture (Bristol) 72
 Stone, artificial 729
 Stones, W. (personal) 49
 Stoppers, improved top 422
 — suggested improvement, 386
 Store-prices (A. & N.) 245, (A. & N.) 806, (letter) 325, (palatinoids) 325, 355, 385, (C.S.A.) 562
 Stortons, Ltd. (fire) 883
 Stoovaine anaesthetic solution 784
 — strichnine anaesthesia 806, 817
 Stow's "Survey of London" (reprint) 471, 541
 Stower, A. R. (before G.M.C.) 827
 Straits SETTLEMENT:
 Deleterious Drugs Bill 956
 Drug import, permits 462
 Pharmacy Bill 185, 267, 377
 — Ordinance prosecutions 333, 6⁷⁴
 Spirit monopoly 462
 Strauss, Dr. G. L. M. (port.) 149
 Straw-hat dyes 560
 — varnish 326
 Strentone Co., Ltd. 502
 "Strip" for laundries (law case) 635
 Stripping liquid 455
 Strong, C. (death) 467, (will) 975
 Stronanthus, bio-chemical tests 215
 Strychnine and brucine, separation, 185, 228
 — poisoning 28, 73, 170, 350, Supp. Oct. 2, 651, Supp. Oct. 30, 747, 884, Supp. Dec. 25
 Students' books 314, 478
 Students' corner 38, 70, (foundation) 151, 168, 276, (prizes) 543, 494, 630, 667, 768, 804, 950
 Sublimation tests, notes on 38, 70
 Subitel, analysis 935
 "Successful Salesmanship" (Bottomley) 188
 Sudan, trade report 260
 Sudlow, R. C. (presentation) 285
 Sugar analysis (book) 802
 — boiling 696
 — duty 511
 — estimation, Harrison's method 560
 — mfr. (book) Supp. Sept. 25
 — in urine, yeast test 948
 Sulphate, traces, detecting 950
 Sulphate of Ammonia Co., Ltd. (debentures) 466, (debentures) 815, 852
 Sulphates, Ltd. 175
 Sulphite pitch 389
 Sulphonial poisoning Supp. Sept. 4, 747
 Sulphonated oil 880
 Sulphur deposits, Russia Supp. Sept. 11
 — duty (U.S.) 779
 — imports (Australia) 39
 — organic preparations 935
 — Japanese 172
 Sulphuric acid burns 244
 — lead in 93
 — patent case 43
 — poisoning 170, 467, Supp. Oct. 30
 Summer outlays, soliciting subscriptions 102
 — trade in London 103
 Sumner, R., & Co., Ltd. (outing) 62
 Sunday closing (Germany) Supp. Oct. 23, (Edinburgh) 530
 — opening (Edinburgh) 666
 — trading in Glasgow 40, (O. R. C.) 461
 Sunderland Pharmaceutical Association 61, 371, Supp. Oct. 30, 584, Supp. Dec. 18

Superfluous hairs, to remove 235
 (see also Depilatory)
 Superintendent under P. & P. Act (what is?) 325, (medical men as) 525
 Suprarenal gland (see Adrenalin)
 Suprarenalin, makers 570
 Suprarenine, incompatibles 171
 Surface action, Peddie on 825
 Surgeon's liquid soap 36
 Surgery and bandaging (books) 581, 805, Supp. Sept. 25
 Sutton, G. F., Sons & Co. (inset) 190
 Sutton, W., & Co. (give up sale of patents) 330, 405, 451
 Swan trade-mark case 634
 Swanson Oxalic Acid Works, Ltd. (debentures) 852
 Sweating, excessive, to treat 326
 Sweet-making (book) 715
 Sweet oil, what is? 358, 385, 412, 439, 451, 488, 523, 524, 557, 627, 879
 Sweet spirit of nitre (Bulletin) 738, (poisoning) 595
 Swenden, J. (death) 91
 SWITZERLAND:
 Industrial exhibition 651
 Pharmaceutical curriculum 316
 Trade 961
 Symes, C. (on cascara ext.) 184, 226, (on spirit duty) 589, 685
 Syndetion 372
 Synonyms, Reitmeyer's 504
 Synthetic perfumes, use with alkalies 424
 Synthetic Rubber Co., Ltd. (winning-up) 924
 Syphilis (book on) 833
 Siphons, action to recover 533
 Syria, pharmacy in Supp. July 17
 Syringe, hypodermic, aseptic storage 456
 — sterilising 506
 Syr. pruni virg. (et al. morrhuae) 652, (Hallaway on) 969
 Syr. thymi co. 652
 Syr. violae, liq. pro 326

T

TACT, NEEDED IN BUSINESS 341
 Takamine, Dr. (personal) 395
 Talking-machine records 592
 Tannin and alum gargle (dispensing) 388
 Tanning extracts (book) 124
 Tansan Syndicate Ltd. 636
 Tape worm in sheep, treatment 242
 — treatment 235, 236
 Tariff "Commission" memorandum 458
 — decisions (see Customs and name of country)
 — protective, effect 260
 — reform (Udney on) 965
 Tartar gum 260
 Tartaric acid, lead in 93, (analytical results) 968
 — standard for 681
 Tasmania Pharmacy Board 366
 Tasmanian Eucalyptus Oil Co. 432, 637
 Taste of drugs, concealing 517
 Tatlock, J. (death) 112, (will) 467, 503
 Tattoo-marks, removing 880
 Taylor, A. G., & Co. (exhibit) 438
 Taylor, F. H., & Sons (creditors meeting) 72
 Taylor, J. (will) 853
 Taylor, P. F. (creditors meeting) Supp. July 10
 Taylor, Taylor & Hobson, Ltd. (debentures satisfied) 891
 Taylor's Drug Co., Ltd. (mortgage) 77, (annual meeting) 707
 Tea (book on) 828
 Teasdale, W. (will) 78
 Teed, F. L., on Sale of Food and Drugs Act 278
 Teel oil, preparation and uses 916
 Teeside Chemists' Association 721, 936
 Teeth extraction, hemorrhage 347
 — injury, claim 634
 (See also Tooth and Dental)
 Teething powders, coroner on 362
 Tegetmeier, W. B. (portrait) 148
 Telephones (book on) 413
 Telescopes (booklet) 715
 Temple Packing Co., Ltd. 851

Templeton's School of Chemistry (Belfast) 364, 394
 Tench, J. T. (death) 331
 Teplitz mineral water 651
 Terpeneless oils (pamphlet) 794
 Terpinol acetate as adulterant 469
 Terpinolene, new adulterant 291, 292
 Territorial Army (vets. and) 87, (developing) 329, (pharmacists' experience) 345, (Maws' men) 755 (see also Army)
 Tesco soap 657
 Tetra iodocacodylic acid 20
 Texas Medicine Co., Ltd. (receiver) 742
 Thames Colour Plate, Ltd. 891
 Thame Valley Pharmacists' Association 25, 62, 515, 582, 685, 756, 937
 Thatrit, Ltd. 411
 Theobroma oil (Sage on) 929
 Therapeutic Society 839
 Therapeutics (book) 876
 Thermal Syndicate, Ltd. (silica ware) 253
 Thermogene Co., Ltd. (window displays) 403
 Thermos-Aktiengesellschaft 502
 Thermos flasks 432
 — patent case 464, 500, 533, 704, 776
 Thioicol 238
 Thomas, C. (death) 569, (will) Supp. Dec. 18
 Thompson's filter 650
 Thomas, Dr. H. (C. & D. Jubilee) 272
 Thomson, A. (death) 256, 337
 Thomson, Sir J. J. (portrait) 376, (B.A. address) 405, (letters on) 488, 524
 Thorianite in Ceylon 270
 Thorpe, T. E. (knighted) 2, (personal) 17, 374, 504, Supp. Oct. 30
 Thor-rad-x 126
 Thyme oil, Cyprus 291, 452, 834
 — standard for 581, 681
 — red 452
 — syrup 652
 Thymene 901
 Thymol, glycerole 980
 Thysol 195
 Thyroid glands, preparation 423
 Ticket-writing inks 456, 948
 Tidman & Son, Ltd. (sea-salt) 253, (carriage on sea-salt) 768
 Tidswell, A., & Co., Ltd. 175
 Tiger, poisoning 497
 Tilden, Dr. W. A. (degree conferred) 427, 631, (portrait) 745, (knights) 781, 865
 Tinet, nuc. vom. et ferri in mixture (disp. note) 979
 Tinet, zedoarie co. 900
 Tincture standards 358
 Tinctures, assay of extractive and glycerin 216
 — increased prices 24 (see also Spirit-duty increase)
 Tisanes, use of, in France 332
 Titles, protected (see Pharmacist also Poisons and Pharmacy Act)
 Tobacco a drug 956
 Tocher, J. F. (presidential address) 183, 201, (biography) 199, (portrait) 199, (personal) 596, (dinner to) Supp. Dec. 18
 Toe-nail, thickened, treatment 100
 To-Kalon Mfg. Co., Ltd. 111
 Tokyo Chemical Laboratory Co. 333
 — chemists in 462
 Tolkien, C., & Co. (exhibit) 437
 p-Tolyl arsenic acid 476
 Tomlinson, Dr. H. (personal) 459
 Tonga bark, investigated 291
 Toning and fixing bath 242
 Toothache caused by hunger 506
 — tinctures 566
 Tooth-brushes, soak before use 567
 — provided by town council 244
 Tooth-extraction accident 807
 — book 232
 — cocaine in (law case) 704
 — fatality 496
 — painless 734
 Tooth extractors, chemists as 99, 67, 694
 (See also Dental and Teeth)
 Tooth-paste 526
 — powder, oxygen 734
 — "Daily Express" formula Supp. Nov. 13
 Town Tenants' League 3

Townsend, J., & Sons (calendars) 479, (label specimens) 708
 Trade effluents, treating 102
 Trade-marks Act prosecution (see Legal reports)
 — advantage of 841
 — British, in France 332, 631, 846
 — in China 634
 — in Japan 42
 — popularising (Germany) 886
 — registered (see weekly contents)
 — registration, objecting to 325
 — use of (France) 332
 — "Xrayser" on 749
 Trade names, rights in 591
 Trade notes (see name of firm and article)
 Trade progress (see name of country)
 Transfer agent's commission (law case) 501, 541, 590, 625
 Transferring designs 390
 TRANSVAAL:
 Medical and Pharmacy Bill 42, 75
 Opium Bill 75, 280
 Pharmacy Board 280, (regulations) 921
 Technical laboratory suggested 461
 Travel exhibition 38, 71
 Travellers (see Commercial travellers)
 Treacle, black 880
 Tree-banding 660
 Tréfle face-powder 526
 Tremble, J. E. (port.) 5
 Trey, C. de, & Co. (exhibit) 438
 Trey's alloy 438
 Triacetie arsenious anhydride 20
 Trial-ease, optical, suggestion 901
 Tricopherous trade-mark 891
 Trieste imports of gums 745
 Trional poisoning Supp. Sep. 4
 Tripoli, varieties 879
 Tropical Diseases Committee 361
 Trumilk 437
 Truss-fitting 948
 Tscheirich, Prof. W. O. A. (portrait) 548, (address on pharmacognosy) 548, 575 ("Handbuch der Pharmakognosie") Supp. Sep. 25
 Tuberculin (book on) 413
 Tuberculosis cure 497
 — Knaggs' book 124
 — prevention (Natal) 667
 — in South Africa 398
 Tuck, R., & Sons, Ltd. (picture-puzzle cards) 504
 Tucker, R., & Co. (arrowroot) 27
 Tumenol ammonium, incompatibles 121
 Tunbridge Wells Association of Pharmacists 61, 582, 721, 907
 Tunelis bottle-washer 650
 Turbo bottle-washer 650
 Turfa wing-pump 650
 Turkey-red oil 880
 Turnbull's ointment 326
 Turner, J. (death) 431
 Turpentine, decolorising 650
 — increasing the yield 549
 — oil, standard for 581
 — poisoning 427, Supp. Oct. 30
 — testing 919
 — yield (U.S.) 97, 549
 Turret bottle-washer 650
 Turvey Treatment Co., Ltd. (winding up) 175, (liquidation) 544
 Turvey treatment advertising (law-case) 776
 Tuson's Disinfectants Co. (successors) 188
 Tussol, incompatibles 121
 Tutin, F., on quinino salts 746
 Tutin and Clewer on *Rumex ecklonianus* 971
 Tweedmouth, Lord (death) 467
 "Twentieth Century" teeth 438
 "Twin-fish" emulsion 195
 Typewriter ink 880
 Tyramine 673

U

UCAL TRADE-MARK 649
 Uga milk 572
 Ukaline 651

Ukazone 651
 Umney, J. C. (on *Podophyllum Emodi*) 385, (on bergamot oil) 411, (on port-dues) 555, (on drug-standard) 577, 579
 Umpleby, S. S. (bankr.) 174
 Unguemol 27
 Ung. aconiti, Turnbull 326
 — capsici co. (C.F.) 517
 — menthol co. 335
 — nervinum 456
 — resorcin co. 842
 — rubefaciens, Turnbull 326
 United Alkali Co., Ltd. (dividend) 285
 United Chemists' Association, Ltd. (formation) 357, 604, 663, 672, (shares allotted) 777, (letters) 800, 815, (discussion) 828, (shares allotted) 891, (discussion) 972
 United Kingdom, wealth of 610
 United Society of Chemists and Druggists (note on) 145
 UNITED STATES:
 Bureau of Plant Industry (bulletin) 514
 Drug-store companies Supp. Nov. 6
 Drug-trade overcrowded 811
 Food and Drugs Act Supp. Aug. 7, (peroxide creams) 463, (vanilla) 463
 Liquor sale 416
 Narcotic drugs, restrictions 811
 Pharmacopeia (criticised) 247, (Convention) 888, ("Digest") 119, 367
 Pharmaceutical legislation Supp. Aug. 7, 559
 Pharmacy laws 559
 Spirit duty on British imports 594, 436, 446, 481
 Tariff decisions 885
 Tariff, effect on France 364, 395
 — published 484
 — revision 117, (H.C. question) 180, Supp. July 17, Supp. Aug. 7, 405
 Trust law case 367
 Universal forceps 438
 Universal pin-teeth 438
 University College Hospital (notes on) 867
 — matriculation examinations, 293, 294
See name of city
 Unna's paste 235
 Uren, W. C. (portrait) 721
 Urethane, incompatible 121
 Urine, ammonia in, assay 340
 — analysis, Gardner on 828
 — lead in, testing 100
 — sugar test 948
 Urotropin mixture 802
 Usher, A. M. (bankr.) 777, 814
 Usher, Dr. J. F. (death) 400
 Unxid disinfectant 651

VACCINATION DEATH 529 (*see also* Small-pox)
 Vaccine therapy (book) 715
 Valentine, Dr. (personal) 366
 Vallance, A. C. (personal) Supp. Dec. 18
 Vampire fly-catchers 281
 Vanguard Chemical Co. (exhibit) 651, 959
 Vanilla, exports (Mexico) 274, (Tahiti) 363
 — extract (U.S. decision) 463
 — colour of 696
 — production (Réunion) 271, (Seychelles) 450
 Vanillium in vanilla-packers 846
 Vanoleum 748
 Vapo-cresolene poisoning 467
 Vaporite commission (law-case) 670
 Vaporite-Strawson Co., Ltd. 504, (uses of vaporite) 570
 Varnish mfr. (books) 124, 734
 "Vaseline and its uses" (pamphlet) 238
 Vasoliment 415
 Vat-dyes 730
 "Vegetable alkaloid" defined 223
 — wax, Japan production 130
 Veitch, T. D. (death) 9, (will) 438
 Veldora bouquet 50
 Velvety rubber sponges 853
 Velvix Toilet Co. (Veloda bouquet) 50

Venereal diseases (books) 100, (advertisements, prohibited) 463, (book) 801
 Veronal poisoning Supp. July 10, 126, 350, Supp. Oct. 16, Supp. Oct. 30, 710
 Versailles palace pictures 460
 Veterinary degrees 309
 — medicine (book) 232
 — schools 309
 — surgeons and territorial army 87
 — surgery, education and qualification 308
 — wound-stone 696
 Vibrona wine 189
 Victor labeler 650
 VICTORIA:
 — Pharmacy Act prosecutions 74
 — Poisons Act Amendment 702, 847
 — — penalties 334
 — Pure Food Act prosecutions 334, 396
 Victoria bottle-washer 650
 Vigier prize instituted 105
 Vignette, origin of 349
 Viking Renett Co., Ltd. (debenture) 111 (debentures satisfied) 255
 Vilixir Co., Ltd. 672
 Vinum (*see specific name*)
 Violets, syrup, fermenting 628
 "Violette sublime" perfume 189
 Violin varnish (discovery) 503
 Virginian prune syrup 969
 Virol, Ltd. (exhibit) 571
 Viseco Development Co., Ltd. (inset) 190, booklet (794)
 Vitality at low temperature 126
 Vitaloids, advertising claims (law case) 765, 740
 Vivo Vibrator Co., Ltd. 338
 Vivus preparations 777
 Vogl, A. E. R. (death) 256, 261
 "Voorschriften van Specialités" 715

W

W. B. PATENTS, LTD. 742
 Wachendorff & Co. (agency) 960
 Wade, J. (portrait) 145
 Wages, assistants' (*see Assistants' salaries*)
 Wakley & Sons, Ltd. 399
 Walkden, E. (bankr.) 501, 835
 Walker, J. (inventor of matches) 72
 Wallbridge, J. G. (deed of arr.) 850
 Wallis, C. J. B. (death) 503, (will) 603
 Walls, Wm., & Co., Ltd. 77
 Walmsley Bros., Ltd. 568
 Walnut oil 36
 — pomade 36
 Wander, Dr. (exhibit) 196, 393, 571
 Wandless, W. H. (portrait) 758
 Wandsworth Technical Institute Supp. Sept. 18
 Wanklyn, H. A. (rubber sponge stand) 196, (rubber prices) 370, (Velvey sponges) 853
 War Office chemists' salaries 114
 Ward, J. (death) 927
 Warnford-Davis, F. (personal) 263
 WARNINGS:
 — Change-ringing 38
 — Employment seeker 4
 Islip, L. J. (prosecuted) 529, 663, 688
 London customer 245
 Obtaining goods by trick 594
 Warren, S. B. (death) 852
 Washing powder 880
 Wasp fly-band 189
 Water charges to photographers 920
 — purification research 180
 — purifying from soot 390
 Watford Embossing Co. (inset) 190
 Watford Pharmacists' Association 907
 Watkins, Ltd. (meeting) 45
 Watson, A. F. (death) 400
 Watson, A. S., & Co., Ltd. (report) 8, (meeting) 45
 Watson, J. (pharmacy) 732
 Watson, W. J. (before G. M. C.) 827
 Watt, G. (sketch) Supp. Oct. 30
 Watt (Sussex), Ltd. 567
 Watts, F. (port.) 263
 Waugh, G. H. (bankr.) 814, 959
 Wax (*see specific name, e.g.* Beeswax)
 Wayland, W. A., & Co., Ltd. (debentures) 77, 602, (exhibit) 651
 Wealth of the United Kingdom (statistics) 610
 Weaver, Dr. A. E. R. (appointment) 72
 Weddell, G. (port.) 10, 210
 Wedel's essentia carminativa 900
 Weeds and Agricultural Seeds (Ireland) Bill 266, 551, 339
 — eradication (H. C. quest) 285
 Wehner, A. S. (Dalloff tea) 961
 WEIGHTS AND MEASURES ACT:
 — Administration 594, 576
 Gadd on 507
 Inspectors' reports (E. Riding) 244, (Edinburgh) 564
 Prosecutions (*see Legal reports*)
 Scales regulations 408, (letter) 452, 469, 491, 492, (ed.) 513, (discussion) 515, (letters) 524, (Ph. Soc.) 546, (inquiries) 559, (MacMahon interviewed) 576, (discussion) 582, (letters) 589, (inquiries) 591, (discussion) 612, (letters) 626, (inquiries) 628, (discussion) 467, (Ph. Soc.) 717, (inquiries) 733, (discussion) 791, (M.C.C.) 815
 Weights and measures in O. R. C. 248
 Weld, C. C. (personal) 285
 Wellcome Philharmonic Society Supp. Dec. 18
 Wellcome Photographic Club 882
 "Wellcome" Photographic Diary 855
 Wellington & Ward (exhibit) 514
 Wells Wood, Ltd. 111, (debentures) 285
 West Ham Association of Pharmacists 90, 404, 469, 647, 936
 West Ham Technical Institute 403
 West Riding Federation 722
 West of Scotland College of Pharmacy 299
 WESTERN AUSTRALIA:
 — Health Bill 702, 809
 Western Pharmacists' Association 25, 426, 582, 647, 792, 937
 Westminster College of Pharmacy Supp. July 3, Supp. July 24, 297, Supp. Oct. 9
 "Westminster Wisdom" is indexed under subjects
 Wharham, T. B. (will) 578
 Wheat, to poison 517
 Wheeler, E. (will) 78
 Whelpley, Dr. H. M. (celebration) 888
 Willows, Francis, Butler & Thompson (Smith's anaesthetic) 928
 Whisky defined 291
 Whistling rockets 916
 White, J. L. (death) 49
 White, J. W. (personal) 178
 White, W. C. (death) 369
 White & Humphrey's "Pharmacopedia" 581
 White liniment 456, 486
 White precipitate ointment (analysis) 244
 White wax exports (China) Col. Supp. July 17
 White's "Materia Medica" Supp. Oct. 30
 Whitia, Sir W. (personal) 263, (appointment) 364
 Whittaker, A. (vaneleum) 748
 Whittaker, H. (death) 673
 "Wholesale Chemist," use of title 765
 Whyte's ni-verre shampoo 817
 Wickwar Chemical Co., Ltd. (debentures satisfied) 815 (debentures) 852
 Wiegand, T. S. (death) 369
 Wiggin's goat-pills (law case) 533
 Wigmore dispensing balance 637
 Wijs balogen absorption method 324, (Remington & Lancaster on) 230
 Wild cherry and cod-liver oil syrup 652
 — sauce 651
 Wiley's "Agricultural Analysis" 478
 Wilkie, J. M. (on assay of amm. phosphate) 379
 Wilkinson & Simpson, Ltd. (described) 12
 Williams, A. (death) 892

Williams' Borough Pharmacy, Ltd. 890
 Williams's shaving soap (law case) appeal 599 (*see also* Legal reports)
 Williamson, L. (port.) 13
 Williamson, T. (death) 112, (will) 603
 Willows, H. J. (death) 112, 178 (will) 337
 Wills of deceased persons (*see name of person*)
 Wills (Erasmus), Ltd. 959
 Wills, G. S. V. (personal) 603, (bankr.) 742
 Wilson, A. (death) 256
 Wilson, A. W. (death) 673
 Wilson, G. (death) 673, (will) 962
 Wilson Veterinary Medicine Mfg. Co., Ltd. (debenture) 111
 Winearnis, passing off case 850
 Winco wing pump 650
 Window display (crude drugs) 329, (horse powder) 378 ("own preparations") 378, (oatmeal soap) 459, (mechanical figure) Supp. Sept. 18 (lung cure) 540, (cream emulsion) 642, (Harlene) Supp. Oct. 30 (children's cherry cough emulsion) 794, (Wright's soap) 818, 870, (nataline) 928 (North pole) 952, (Martin on) 972
 — competitions 102, (Harlene) 188, 334, 393, 426, 470, 494, (erasmic) 504, (Blackburn) 698, 756, 805, 918, (Darwen) 951
 — shelves, fittings 253
 Window smash 104, 278, 393, (compensation) 428, 458, 496, 562, 630, 631
 — tickets, personal 737
 Wine guarantee (France) 428
 — sale by chemists (N.Z.) 481, 954
 WINE LICENCES 2, 102, 392, 630
 — Debate (H.C.) 440, 573
 — Deputation 114, 266, 285, 339, 372
 — Increased duty 114, 401, ("Xrayser") 405, 409, 481, 505, 540
 — Medicated, suggested 14 (*see also* Medicated wines)
 — Needed for meat wine 388
 — Questions in H.C. 48, 87
 — Wholesale 48
 Winsfrey, R. (personal) 562, 637
 Winslow's syrup (free from poison) 817
 Winter fluid for hands 802
 Winter session, subjects for discussion 510, 541
 — stout essence 326
 Wintergreen oil, standard for 581, 681
 Wireless telegraphy (book) Supp. Oct. 30
 Wishart, J. (appointment) 178
 Woburn wash 85
 Wolverhampton Chemists' Association 177, 494, 684, 831, 936
 Woman obtains pharmacy concession 886
 — admitted to R.C.S. 87, 180, (to R.C.P.) 263
 Women Pharmacists' Association 614, 866
 — duties 614
 Women's exhibition 393
 Wood oil, exports (Hankow) 180
 — products (book) 124
 — stain, black 842
 Woods, E. J., Ltd. 777
 Woods' drug-habit remedies 777
 Woodhouse, G. (Mayor) 744
 Woody nightshade poisoning Supp. Oct. 2
 Wool-fat, standard for 580
 Woollett, H. M., & Co. (Bristol) Ltd. 368
 Woolley, J. Sons & Co., Ltd. (outgoing) 24, (exhibit) 196, (exhibit) 571, (jeevol) 637, 673
 Woolley's, Ltd. (emulsion) 195 (*see Cunil, Ltd.*)
 Wootton, A. C. (portrait) 152, (death) 821, (funeral) 857, (appreciations) 857, 858, 863, 885
 Wootton's "Chronicles of Pharmacy" 478
 Worcester Chemists' Association Supp. Dec. 18
 Workmen's Compensation Act (*see Legal reports*)
 Workshop receipts (Spon's) Supp. Aug. 14

"World" ladder 650
Worm-powder for sheep 455
Worms, in lawns, killing 802,
(powder) 880
Wound-stone, veterinary 696
Wray, Sanderson & Co., Ltd.
(mortgaze) 85
Wright, J. & Co. (St. Andrew
radiators) 538, 817
Wright's coal tar soap (window
display) 818
Wright, Layman & Umney, Ltd.
(Wright's soap) Supp. July 10,
(window displays) 350, (bergamot
oil) 432, (winter speciali-
ties) 504, (vaporiser) 537 (soap
advertisement) 768, (calendar)
817, (spirit duty circular) 908,
(Christmas holidays) 918, 951

Wulffing, A., & Co. (formamint)
479, 504
Wycherley, Mrs. A. (death) 432
Wynne, E. P. (Mayor) 744

X

XL-ALL FUMIGATING COMPOUND
FATALITY 699
X-ray plates development 125
X-rays for ringworm 102 (*see also*
Röntgen rays and Radiography)

Y

YARDLEY & Co., Ltd. (shaving-
stick) 38, (debentures) 255

Yarmouth (*see Great Yarmouth*)
Yates, D. (death) 962
Yates, E. (will) 256
Yeast, compressed, how made 636
— to test 389
Yellow colouring 915
York Chemists' Association 756,
869
Yorke, F. E., Ltd. 502
Young, J. (personal) 594
Young, J. R. (will) 108
Young Men's Christian Associa-
tion (new headquarters) 38

Z

ZAHRADNIK, J. (glass-ware) 403
Zam-buk imitation (police charge)
71, 427

ZANZIBAR:
Annual report 474
Poison-sale 460
Zedoary, antiquity of 931
— in rheumatism 900
— tincture 900
Zeiss, C., & Co. (new factory) 844
Zimmermann, A. & M. (exhibit)
571
Zinc chloride poisoning 246
— oleate assay 968
— oxide (book) 715
— — inhaling, effects 358
— sulphate poisoning 103
— valerianate in pills (dispens-
ing) 242
Zotos, sea-sickness remedy 350
Zotos, Ltd. (advertisement) 505
Zymogens 722

Mr. WILSON gave particulars of a large number of experiments which he had made with a view to ascertaining the cause of the colour. He found that the addition of a little potassium or sodium hydrate completely discharges the colour before neutrality is reached, so that the mixture can still be dispensed as a colourless acid solution. Trial was made to see whether the mixture could be dispensed by using the equivalent of caffeine alkaloid, omitting the citric acid altogether, and the interesting discovery was made that the phenazone solution acts as an excellent solvent for the alkaloid. Not only can the correct proportion of caffeine be used, i.e., 16 grains in 2 fl. oz., but double that quantity can be dissolved with ease, and the mixture still remain perfectly clear. So the preferable method is to dispense the prescription by omitting the citric acid and using the equivalent of caffeine alkaloid. The author was indebted to Mr. Wm. Duncan for a suggestion which had led up to the discovery of the real cause, viz., that no commercial powdered citric acid is free from contamination with iron, and phenazone is so extremely sensitive to ferric iron as to give a very distinct reaction in the proportion of 1 in 50,000.

DISCUSSION.

Mr. DUNCAN said this question had bothered many dispensers during the past two years, and he was more than thankful that Mr. Wilson had worked it out to finality and had found that his (Mr. Duncan's) suggestion was really the true one. It was remarkable that all the citric acids he used would have passed the B.P. If they applied these tests to these citric acids they got no indication of iron, but if they burned 100 gr. of the acid and tested the residue they got a distinct reaction of iron. He recalled an observation by Mr. Hill to the effect that the B.P. should provide for the absence of metallic particles in such things as this.

Mr. C. F. HENRY stated that he had experienced this trouble, but got over it by mixing the phenazone, caffeine citrate, and sodium bromide together before dissolving; thereby the brown deposit is avoided.

Mr. COWIE did not quite see how ferric iron could be present in citric acid, as the tendency of citric acid was to reduce ferric compounds to the ferrous condition.

Mr. RUTHERFORD HILL thought it was absolutely established that the samples of citric acid and caffeine citrate unquestionably contained iron. Mr. Hill showed the mixture prepared by using very pure citric acid crystals, which gave no reaction with potassium sulphocyanide; it was of a distinct straw colour, whereas a similar mixture prepared with the same materials, but excluding the citric acid, was water-white. Though the solution of citric acid gave no iron reaction with potassium sulphocyanide, a distinct reaction was obtained by adding the sulphocyanide to the powdered crystals. That seemed to indicate that phenazone is an even more delicate reagent for iron than potassium sulphocyanide. Phenazone gave quite a recognisable reaction with an aqueous solution of ferric chloride, containing only one part of iron in 75 million parts of solution. Long before this degree of dilution was reached neither phenazone nor sulphocyanide gave the characteristic reaction unless the solution was kept distinctly acid by the addition of hydrochloric acid. Apparently the iron, because of the basic action of the water, passed into a colloidal condition in which it does not act with sulphocyanide of potassium or phenazone. All the mineral acids examined gave with potassium ferrocyanide distinct evidence of a trace of iron. This possible error, however, was excluded by a blank experiment, and he found that in the proportion of one part of iron in three million parts of solution the reaction was very distinct, and in the proportion of one part of iron in seventy-five million parts of solution it was still perfectly recognisable by placing the solution in a Nessler tube and adding the phenazone. Mr. Donald McEwan (who supplied the second prescription) in a note said he agreed with Mr. Wilson's conclusion, except he was not clear changing the prescription by the substitution of alkaloid for caffeine citrate should be adopted. Mr. Hill pointed out that the difficulty in that connection was that the colour of the mixture would vary as the percentage of iron in the samples of caffeine citrate varied.

Chemical Society.

A MEETING was held at Burlington House, on Thursday, December 16, Professor H. B. Dixon, F.R.S., in the chair. There was a poor attendance, and the papers, with one or two exceptions, were of little pharmaceutical interest. The President reminded the Society that they had again to deplore the loss of a prominent Fellow, Dr. Ludwig Mond. The meeting passed a resolution condoling with the bereaved family, which referred especially to the great services rendered by Dr. Mond, both in the way of original work and in benefactions to scientific institutions. In the latter connection the foundation of the Davy-Faraday Research Laboratory and the subsidising of the Royal Society's Catalogue of Scientific Papers were especially mentioned. The President also announced that in May or June next it was proposed to entertain at dinner four Past-presidents of the Society who had attained their membership jubilee—viz., Sir Henry Roscoe, Sir William Crookes, Professor Vernon Harcourt, and Dr. Hugo Müller. Full particulars of the dinner will be announced later. The first paper was on the

PRODUCTION OF Para-DIAZOIMIDES
from alkyl- and aryl-sulphonyl-*para*-diamines, and was contributed by Dr. Morgan and Mr. Pickard. It gave rise to a discussion among the "colour" chemists as to the formulation and nomenclature of these bodies, with occasional references to the perennial question, "When may a body be described as a quinone?" Some of the new substances described give on silk very pleasant colours, varying from salmon pink to a bright terracotta, and the authors have already discussed the practical value of these new dyes in another place. The next paper, by Dr. Morgan, Miss Micklethwait, and Mr. G. S. Whitby, was more promising from a pharmaceutical point of view, as it dealt with

ORGANIC COMPOUNDS OF ANTIMONY.

The first two authors have described already ("Trans. Chem. Soc.", 1903, p. 2144) a series of derivatives obtained by the interaction of arsenic trichloride with sodiumcamphor, and in the present paper compounds obtained by the action of sodiumcamphor on antimony trichloride were dealt with. The most important substance prepared was tricamphorylstibine chloride, whereas in the case of arsenic trichloride dicamphoryl derivatives only were obtained. The new antimony compounds were tried physiologically, and exerted some action, but owing to their insolubility in the usual solvents they are quite unsuitable for medical use.

The next paper was a contribution from the Wellcome Chemical Research Laboratories, by Messrs. Tutin and Clewer, on

THE CONSTITUENTS OF RUMEX ECKLONIANUS.

Rumex Ecklonianus, Meissner, is an herb indigenous to South Africa, where it is reputed to possess medicinal properties. An alcohol extract of the herb, when distilled with steam, yielded a trace of a substance which formed yellow prisms, melting at 159° C., together with a small amount of essential oil. The non-volatile constituents of the extract consisted largely of brown resinous matter, but the following definite substances were also isolated: Ceryl alcohol; a phytosterol, $C_{20}H_{34}O_2$, apparently identical with rhamnol; palmitic, stearic, oleic, linolic, and *isolinolenic* acids; a small amount of ipuranol, $C_{21}H_{38}O_2(OH)_2$; kæmpferol; chrysophanic acid; emodin; and emodin monomethyl ether; together with traces of other crystalline substances and large amounts of inorganic salts. A sugar which yielded *d*-phenylglucosazone was also present in small amount, but no evidence could be obtained of the presence of a glucoside. The emodin monomethyl ether which was isolated was identical with that obtained by Perkin and Hummel from *Ventilago madrasapatanana*, and with that prepared synthetically by Jowett and Potter. The dimethyl ether of chrysophanic acid was prepared, and obtained in the form of yellow prisms, melting at 190° C.

The Society adjourned until January 20, 1910.

Winter Session of Chemists' Associations.

Brief Records.

Leeds Chemists' Association.—A meeting was held at the Grand Restaurant, Boar Lane, on Thursday, December 10, Mr. F. Pilkington Sargeant (President) in the chair, when an interesting paper on "The Apothecary and his Wares in Shakespeare's Days," by Messrs. F. Pilkington Sargeant and J. H. Beacock, was read. The vote of thanks accorded to the authors was moved by Mr. T. Horner, seconded by Mr. S. R. Mundell, and supported by Mr. G. W. Worfolk and others.

The Chemists' Assistants' Association's second musical and social evening of the session was held at 73 Newman Street, on Thursday, December 10. Mr. R. H. Brittain was in the chair, and an excellent programme was provided by members and their friends. Mr. Morrice rendered good service as accompanist, and the following gentlemen in song and recitation: Messrs. A. H. Millner, C. S. Presant, J. Williams, E. Jamieson, R. Lounshorough, H. Grainge, R. Malone, and A. Barbour. A collection, which realised 10s., was taken in aid of the Benevolent Fund. At the close of a very enjoyable evening Mr. F. S. R. Loxley (President of the Association) thanked Mr. Brittain and the artists for their services, and the meeting concluded.

Irish Chemists' Assistants' Association. A meeting was held at the rooms, 48 Talbot Street, Dublin, on December 10. There were between seventy and eighty persons present. Mr. Ridge was voted to the chair and briefly explained the objects for which the Association was founded. Mr. Harrod delivered his inaugural address, which occupied an hour. In the course of it he said that every post brings in applications for membership. The club, which is to be supplied with books and magazines, is to be opened each day at 7 p.m. The first work of the Association will be directed to obtaining for its members shorter hours, a weekly half-holiday, and better pay. Referring to the salaries paid to assistants, the speaker said he knew of a case where an unqualified assistant was paid only 7s. 6d. a week. Mr. Harrod also mentioned that a cricket club and a football club are to be started.

Leicester Chemists' Association. A meeting was held at the Turkey Cafe, Leicester, on December 7. Mr. A. D. Hearnshaw (Vice-President) in the chair. Mr. Marfitt (Secretary) reported that he had written the Edwards' Harleno Co. re the extreme cutting of their preparations in the town, and urging them to put their goods on the P.A.T.A. list. A letter had been received in reply, merely suggesting local arrangements between members of the Association. Mr. Marfitt and Mr. McMillan urged members to write to the Harleno Co. about the matter. Mr. H. A. Martin read a paper on "The Art of Window dressing for Chemists," a subject in which (as his photos in the C. & D. have proved) he is an adept. The paper provoked a lengthy discussion on the merits and demerits of "one thing" shows, and on the motion of Mr. Hampton, seconded by Mr. Lewis, Mr. Martin was most heartily thanked.

National Union of Assistant Pharmacists. A meeting of the Birmingham Branch was held at the Carlton Cafe, Temple Street, on Monday, December 20. Discussion of the General Executive's report was completed, and the following resolution passed:

That this meeting expresses its approval of the action of the Executive in proposing to run two candidates for the Council election, and considers it sound policy that the candidates should be restricted to Union members.

The following were nominated for the ballot at the annual meeting: President, James Smith (London); Vice-President, J. B. Waldron (Liverpool); Treasurer, J. M. Dowty (Bristol); Secretary, F. Bullen (London). Executive Committee: L. McNab (Glasgow), F. Bentley (Birmingham), J. Elder (Newcastle), A. A. Anger (Sheffield), J. Findlay (Bristol), H. Hines (Weston-super-Mare), and J. Gibson (Birmingham). It was decided to advise the Executive to hold the next annual meeting at Manchester.

Cardiff Chemists. A meeting was held at the Angel Hotel, Cardiff, on December 15, for the purpose of hearing Mr. Harold Miller, Chairman of the United Chemists' Association, Ltd. Mr. Hopkins, of Barry, presided. Mr. Miller put before the meeting the points in which he believed his company differs from others formed, and emphasised the fact that the holding of its shares is confined to pharmacists, and that one of its objects is to secure by co-operation profits to the pharmacist which now go to unqualified men and companies. The method of working was fully explained, and

details of what has been already done were given. Mr. J. Gilbert Jackson (Sheffield) also spoke, and gave details of the work being done at the Ucal factory and submitted specimens. Messrs. Bellamy, Davies, Hicks, Lea, Williams (Cardiff), Davies (Newbridge), Allen (Barry), Richards (Cadoxton), Rees (Barry Dock), Poole, Murray, and Gratto (Newport) asked for particulars on various points, which were given; then the Chairman, in proposing a vote of thanks to Messrs. Miller and Jackson, said he had been greatly impressed by the businesslike and straightforward way in which all the questions had been dealt with. Mr. Hicks seconded, and the vote was carried.

N. Staffs Chemists' Association.—A meeting was held at the Roebuck Hotel, Stoke-on-Trent, on December 16, Mr. W. Tipper (Stoke) presiding. Messrs. T. Bentley, Hon. Secretary (Stoke), J. B. Blades (Leek), E. Corner and F. C. Burrell (Hanley), E. Mellor (Uttoxeter), J. A. Dale (Stoke), W. D. Edge (Wolstanton), S. C. Challinor (Fenton), R. B. Kennington (S. Maw, Son & Sons, Ltd.), E. Griffiths (Kidsgrove), and H. W. Oliver (J. C. & J. Field, Ltd.) were also present. It was decided to discuss at the next meeting a letter from the Birkenhead and Wirral Chemists' Association regarding the decision in the Mercer case. Mr. E. Mellor, of Uttoxeter, read a paper entitled "The Organisation of the Forces of Pharmacy." This was a free criticism (destructive and constructive) of the Pharmaceutical Society. Its first object was to impress upon the Society the importance of catching chemists young, and following up reorganisation in this department by appointing travelling secretaries (a sort of hybrid canvassing inspectors) so as to get more members and facilitate the administration of the Pharmacy Act. Mr. Mellor next dealt with the Council, suggesting that no councillor should hold office for more than six years in succession, and the President should not be so for more than three years in six. A discussion followed. Mr. Blades was the first to speak, and his remarks were confined to severe criticism of the Pharmaceutical Society. Mr. Griffiths considered that Mr. Mellor's proposal regarding apprentices was very good, and he advocated extended powers for the Pharmaceutical Council to inquire into cases of infringement. Mr. Corner, Mr. Kemp, Mr. Edge, Mr. Challinor, and the Chairman also spoke, and Mr. Mellor briefly replied. It was decided to hold the annual dinner early in February.

Northampton Pharmacists' Association.—A meeting was held on December 16, when an address was given by Mr. A. J. Chater, of the Pharmaceutical Society's staff, on what the Society is doing for the protection and promotion of the interests of chemists. Mr. E. Dennis (President), was in the chair, and Messrs. W. D. Mayger, W. McKinnell, A. Armitt, G. Ingle, L. North, F. C. Ashford, D. McKinnell, W. Gatehouse, J. F. Harris, and the Hon. Secretary (Mr. F. Cowdry) were also present. Mr. Chater, in the course of his address, said that chemists had been kept in a condition of modified mystery with regard to what the Council was doing, and consequently were compelled to rely upon the reports in the trade journals, but these reports could not give them sufficiently comprehensive information to enable them to judge safely and soundly on such questions as the administration of the new Pharmacy Acts or facts that underlie the use of the word "pharmacy." The only way in which adequate information could be conveyed to them was for an officer of the Society to meet them in private conference—a policy of mutual confidence and co-operation. He then gave a lucid description of the past and present state of pharmacy law and the efforts made by the Society to prevent free trade in poisons. He pointed out that agri-horticultural licences apply only to a very restricted number of articles, and if the licensees go outside them they come into the net of the Pharmacy Act. The licence has to be renewed annually, and there is a considerable amount of responsibility and trouble involved in keeping within the law. The Council is keeping a very strict watch for irregularities or infringements, and intend to rely more upon the existing powers under the Act than upon appeals to Parliament. The discussion was opened by Mr. W. McKinnell, who expressed himself greatly dissatisfied with the trend of recent legislation. Mr. Ashford was convinced that the Society had done all that it possibly could. Mr. Harris said Mr. Chater's speech had been to him a clear confirmation of what Sir John Gorst once told him when they were travelling together in Germany, that we in this country, despite our representative Government, are ruled far more by officials than in a great many cases in Germany itself. Our Legislature delegated its powers too much, and if they sought the roots from which legislation arid

administration sprung they would find it in official staffs. Mr. Armitt said it was an important thing that chemists' associations throughout the country should ascertain from the town clerks when renewals of poison licences would be considered. Many questions were put to Mr. Chater, who answered them all in such a courteous and comprehensive manner that at the close thanks were heartily accorded him on the proposition of Mr. W. McKinnell, seconded by Mr. Mayger.

Oldham Pharmaceutical Association.

At a meeting held at the Café Monico, Oldham, on Tuesday, December 14, Mr. C. Gartside (President) in the chair, a paper on

THE HISTORY OF LOCAL PHARMACY

was read by Mr. F. Davies. The author had obtained much information from Mr. H. L. Hargraves and Mr. Hiram Bates, two of the oldest members of the trade in the district, while old local directories and Butterworth's "History of Oldham," 1817, were also consulted. In 1830 druggists' shops in Oldham opened at 7 A.M. and remained open until 11 P.M., but the assistants and apprentices had a half-holiday each alternate Tuesday from about 3 P.M. The title "druggist" was used in these days, and it was not until 1840, when the Pharmaceutical Society was founded, that "chemist" was tacked on. The trade was heavy oils, colours and paints constituting a large part of the business. It was after 1817 that the names of druggists began to appear in the directories—Daniel Orme was the first; he was a druggist and confectioner in 1819. When a meeting was called in Manchester by the Pharmaceutical Society in 1841, Mr. William Braddock and Mr. James Hargraves, of Oldham, attended, and the first persons to join the Society from Oldham were William Braddock, Market Place; James Brelsford, Market Place; George Cocks, Mumps; James Hargraves, High Street; and Eli Wood, Greenacres Moor. The author commented upon the fact that for the past seventy years few Oldham chemists have been identified with the administration of local affairs, but at present Mr. H. L. Hargraves is most prominent in this connection. The only apothecary in Oldham in the early years of the last century was Mr. Hudson, at the corner of King Street. Then James Brelsford, who had worked for Mr. William Braddock, opened a shop at the top of George Street (which has since gone through many hands), and in 1839 he opened one at 32 Bottom-of-the-Moor; this business remained in the hands of his family until three years ago, when Sutcliffe's, Ltd., took it over. The author added particulars of the pharmacies that have since been opened in other parts of the town. Previous to the present Association being founded there was in Oldham a Chemists' Assistants' and Apprentices' Association, of which Mr. Martin (assistant to Mr. Hargraves) was President, and Mr. C. Granville Wood, Secretary. An interesting discussion followed the reading of the paper, in which Messrs. Gartside, Cooper, Lees, Yates, Newby, and Bagshaw took part.

North-East Lancashire Chemists' Association.

A SPECIAL general meeting of this Association was held at Blackburn on December 21. Alderman R. Shorrock, J.P. (Darwen), presided.

PARLIAMENTARY MATTERS.

Mr. J. Rennie, Secretary, said he had received communications from chemists' organisations at Bradford, Lancaster, Dewsbury, Manchester, Scarborough, Oldham, Sheffield, Leeds, Liverpool, and Blackpool concerning the suggestion of the North-East Lancashire Association to call a joint meeting to discuss the present situation in pharmacy. The Pharmaceutical Society had also acknowledged the resolution passed at their last meeting respecting the Mercer case. Mr. Rennie also mentioned that the Executive Committee had met a few days previously, and they decided to request Mr. E. Highton and Mr. R. L. Gifford to interview Mr. Philip Snowden, M.P., Labour Member and Candidate for the Borough, with a view to ascertaining his opinion as to the most effective manner in which to frame questions to submit to Parliamentary candidates in order that they might have the 1908 Act amended, or induce the new Government to introduce a short measure to give effect to the promises of Mr. Herbert Samuel, and to the intentions of their recent Act.

Mr. Highton (Divisional Secretary) said they would be aware that the Pharmaceutical Council had been both very active and very inactive. They were very active in appointing Mr. Glyn Jones to represent their interests without seeking the opinions of the individual members. The Society gave Mr. Jones credit for being a clever barrister and adviser, but he should have foreseen the weakness of the Poisons and Pharmacy Act. In regard to the authority given to him to interview the four Parliamentary candidates for Blackburn he interviewed Mr. Philip Snowden on December 18. Naturally, he was very busy at such a period, having several deputations to meet, but he courteously conversed with him on the question. Continuing, Mr. Highton said that a special gathering had been called to discuss three important points. The first related to the advisability of organising a mass meeting of chemists in Lancashire and Yorkshire to debate the situation caused by the recent unfavourable decision. Secondly, to consider the policy pursued in many towns of indiscriminately granting poison-licences; and, thirdly, the question of approaching the candidates. Mr. Highton added that they had the positive assurance of responsible Cabinet Ministers that the purpose of the recent Act was to reserve the title "pharmacy" to "pharmacists." He questioned Mr. Snowden on this matter, and Mr. Snowden wrote him as follows :

"It is perfectly true that Mr. Herbert Samuel said to me, in the committee of the Pharmacy Bill, that it would *not* be possible to use the word 'pharmacy' except to describe the business of a 'pharmacist,' and that was to be restricted to the man carrying on the business. It was distinctly implied in Mr. Samuel's reply that the word 'pharmacy' could not be used by a company."

That, continued Mr. Highton, was very plain English, and there was no getting over it. In conclusion, Mr. Highton said the questions it was proposed to submit to the candidates read :

(a) Will you, if elected, support an amending Bill to make effective the avowed intention of the Government respecting titles, as expressed during the passing of the Pharmacy Act, 1908?

(b) And to prevent the indiscriminate granting of poison-licences by local authorities which has become so general, this wholesale granting of poison-licences being altogether contrary to the definite assurance made from time to time by responsible members of the Government during the passing of the Bill?

Mr. W. Holt, in moving a resolution approving of the questions being submitted, expressed the opinion that it was the duty of the Council to submit questions of this character to candidates throughout the country. Their inactivity in this direction appeared to him to be on a par with everything they had done during the last few years.

The Secretary : It is summed up in Mr. Snowden's letter in which he says that if "your Society desired to do their very worst for you, they could not have done it in a better manner." (Hear, hear.)

Mr. Holt added that he thought the North-East Lancashire Association ought to take this question up. The Pharmaceutical Society appeared to throw all responsibility on the chemists themselves instead of fighting their battles. They shirked action, awaited reports which were too late when they got them, and then omitted to take action to support the opinions their members held.

Mr. Grimshaw said the general body of chemists should decide whether they are going to send a similar set of representatives to the Council in May. If they continued to elect this class of representatives, then they must expect the same thing to continue without reform.

Mr. R. L. Gifford dealt with the "pharmacy" case, and said strong endeavours should be made to secure the title "pharmacist" for the future. No real attempt had been made by the Council, however, to confirm the essential thing. So long as the Council had refused to go to the Government concerned and keep them to their expressed assurances, they had failed to do what they ought to have done.

The resolution was carried, and it was also decided to communicate with the towns named, suggesting that there should be a meeting at a convenient date before next Council meeting to discuss the present pharmaceutical position.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, E.C., December 23.

THE chemical, drug, and produce markets this week show an all round decline in the volume of business done, and already a holiday tone is apparent. Changes in value have been few and of little significance. Menthol has been a feature, with a fair business for American and Continental account at higher rates. Quinine is a shade firmer, but the rather heavy bark shipments from Java for the half month were disappointing to the market. Quicksilver is slightly easier in second-hands. Citric acid is nominal, tartaric acid is steady, and cream of tartar maintains the previous firmer tendency. Sales of China crude camphor have been made at easier rates, but refined Japanese is firmer in some quarters; this is one of the articles expected to improve in the New Year. Cod-liver oil varies considerably in price. The official rates for santonin have at last been fixed. Balsam sells at full rates, and genuine olibuchs are scarce and dear. Ergot is rather firmer. Jamaica honey will probably be higher. Lemon, bergamot, and orange oils are all a trifle firmer. Peppermint is dull. Sassafras bark of root is higher in America. Russian anise and fennel are firm. Canary is neglected, and linseed is scarce. The principal changes are as under :

Higher	Firmer	Easier
Ergot	Bergamot oil	Camphor (China or spot)
Fennel seed	Copper sulphate	Quicksilver (seconds)
India rubber	Cream of tartar	Quillaia (c.i.f.)
Menthol	Lemon oil	Sassafras bark
	Quinine	

Cablegram.

NEW YORK, December 23 : Business in drugs is quiet. Opium is 10c. lower again at \$5.75 per lb. for druggists'. Cascara sagrada is nominal at 7c. Hydrastis (golden seal) is firmer, but quotably unflattered at \$1.90. Copiaba is steady at 45c. for Central and South American. Peppermint oil is steady at 82 per lb. in tins. Seneca is firm at 60c., and jalap is lower at 35c. per lb.

Heavy Chemicals.

Quietness all round is the main feature of the heavy-chemical trade, and orders for prompt delivery are restricted as much as possible. There are moderate inquiries for forward delivery about, but actual bookings are not just at present of moment. Tone of the market generally is good, and values do not fluctuate much.

SULPHATE OF AMMONIA. This market is very steady, and there has been a better demand from all quarters, with the result that the tendency of prices is better. Present nearest figures: Beckton prompt, 11*l.* 8*s.* 9*d.*; January-June, 11*l.* 12*s.* 6*d.*; Beckton terms, 11*l.* 2*s.* 6*d.* to 11*l.* 3*s.* 9*d.*; London, 11*l.* 2*s.* 6*d.* to 11*l.* 3*s.* 9*d.*; Leith, 11*l.* 8*s.* 9*d.*; January-June, 11*l.* 10*s.*; Liverpool, 11*l.* 7*s.* 6*d.*; and Hull, 11*l.* 5*s.* to 11*l.* 7*s.* 6*d.*

ALUMINA PRODUCTS keep steady, and the demand is a fair average. Crystal alum lump, 5*l.* 5*s.* to 5*l.* 12*s.* 6*d.*; lump in tresses, 5*l.* 10*s.* to 5*l.* 17*s.* 6*d.*; and ground in bags, 5*l.* 15*s.* to 6*l.* 2*s.* per ton free on rails Lancashire and Yorkshire or f.o.b. Hull, Goole, or Liverpool. Sulphate of alumina, purest qualities, practically free of iron, ordinary strength, 4*l.* 12*s.* 6*d.* to 5*l.* 2*s.* 6*d.* per ton in casks, with usual extras for similar pure quality in higher concentrations and ordinary allowances

for bags and loose slabs. Alumino-ferrie, 50*s.* to 57*s.* 6*d.* per ton; and aluminous cake, 50*s.* to 57*s.* 6*d.* per ton, according to quality, quantity, and condition. Hydrate of alumina-purest quality and highest strength, Al_2O_3 , 12*l.* 10*s.* to 13*l.* 10*s.* per ton free on rails in large casks. Special pulp hydrate of alumina, 15*s.* to 17*s.* 6*d.* per cwt. c.i.f. Special pulp quality dried in lumps, 35*s.* to 37*s.* 6*d.* per cwt. c.i.f.; and ground, 37*s.* 6*d.* to 40*s.* per cwt. Aluminate of soda, purest quality and high strength, Al_2O_3 , 27*s.* 6*d.* to 30*s.* per cwt. Carbonate of alumina, 32*s.* 6*d.* to 35*s.* per cwt.

Manchester Chemical-market.

December 21.

Although on export account there has been a good business passing, values do not correspond with quantities; the last-named being much larger than the former. In the textile districts there is great quietude, but a fair amount of business is reported in heavy chemicals generally during the ensuing twelve months. Sulphate of copper shows a slight improvement, and for forward delivery makers do not seem inclined to quote, except at full late rates. Acetic acid continues steady, and in active demand; but there is some quietness in brown acetate of lime. White powdered arsenic is a shade better, but there is not much movement to note. Cream of tartar and acids show little improvement. Zinc salts are quoted higher. In coal-tar products there is not much change to note in either benzols or carbolic acid. Sulphate of ammonia continues on the up grade, being quoted 11*l.* 1*s.* 3*d.* to 11*l.* 2*s.* 6*d.* per ton, on rails Manchester.

Kauri Gum.

The Wellington correspondent of "The Times" on December 13 telegraphed that "an official of the Commerce Department, reporting on the kauri industry, says that a ring exists in London with the object of keeping prices low." This statement has been controverted by Mr. H. P. Norton, who on December 21 wrote to "The Times" as follows: "The kauri gum shipped to London on consignment is sold by public auction at sales in Mincing Lane every month, where every consumer even can purchase a single case if he chooses. Most kauri merchants in Europe, however, buy their gum in New Zealand, where the market is regulated by supply and demand and influenced to a greater extent by the American demand than that of Europe."

The Petrol-tax.

The Commissioners of Customs and Excise have issued a circular to motor-spirit importers informing them that the payment of the new duties on petrol have ceased to be enforced, but at the same time intimating that in the event of the new Parliament sanctioning the tax and making it retrospective, they (the importers) will be called upon to pay the duties accruing from the date of suspension. Recognising that whichever party comes into office in the New Year, the petrol-tax of 3*d.* per gal. will in all probability be enforced, all the large importers of motor-spirit have decided to continue paying the duties. It may not be generally known that the 3*d.* duty immediately became a 4*d.* one so far as the consumer was concerned, the wholesalers placing the whole burden upon the private consumer, in addition to an extra 1*d.* per gal. It is interesting to note that the importation of petrol into this country has considerably increased since the imposition of the tax. The Customs and Excise Commissioners have also issued a general order (Excise No. 48/1909) for the information of collectors, giving the regulations for the repayment of duty paid on or before December 3 in respect of motor spirit used for purposes other than supplying motive power for motor-cars. No repayment, however, is to be made at present on certificates given in respect of motor-spirit received by claimants on and after December 4, those claimants being held over pending further instructions. There are twenty paragraphs embodying the regulations.

London Markets.

ACID, CITRIC.—With the present uncertain position there is very little business being done for next year's delivery. First-hand English remains nominal at 1*s.* 4*1/2d.*, second-hands being obtainable at 1*s.* 3*1/2d.*, and foreign is quoted 1*s.* 3*1/2d.* to 1*s.* 4*d.*

ACID, TARTARIC.—The demand remains retail at the unaltered rates of 10*d.* for English and 9*1/2d.* for foreign.

ANISEED is firm at 24*s.* per cwt. on the spot for Russian and 37*s.* 6*d.* for Spanish.

BALSAM, CANADA, in barrels is quoted 2*s.* 10*d.* to 2*s.* 11*d.* per lb. net.

BUCHU.—Several small sales of round green have been made at 1*s.* 7*d.* per lb. Fifteen bales have arrived, but they are likely to be disposed of previous to the auction.

CAMPHOR (CRUDE).—Spot sales of China crude have been made at 135s. per cwt., which compares with 137s. 6d. last week.

CAMPHOR (REFINED).—Japanese is selling in small parcels on the spot, including 1 oz. tablets at 1s. 7d. and 2½ lb. slabs at 1s. 6½d.

CANARY-SEED continues depressed owing to absence of business, but quotations are nominally unchanged at 43s. 6d. to 45s. per quarter for Turkish, 42s. to 43s. 6d. for ordinary to fair Morocco, and 48s. for good, 45s. for clean River Plate, and 60s. to 75s. for fair to fine Spanish.

CARAWAY-SEED is still quoted at 29s. to 31s. per cwt. for ordinary to good Dutch.

CINCHONA.—The exports from Java during the first half of December were 514,000 Amst. lb. against 461,000 last year and 747,000 in 1907.

COPPER SULPHATE is rather firmer, with Liverpool brands offering for prompt delivery at 18l. 15s. to 18l. 17s. 6d. per ton, and for March-April 19l. 10s. is quoted.

CORIANDER-SEED is steady at 8s. 6d. to 9s. per cwt. for common, and 9s. to 10s. 6d. for ordinary to good Morocco.

CUBEBS.—Genuine berries remain very scarce and dear : 6d. 10s. is asked for a few bags.

CUMIN-SEED is slow of sale at 35s. per cwt. for Morocco and 38s. for Malta.

ERGOT.—Business has been done this week at 1s. 4d. to 1s. 4½d. per lb. c.i.f. for Russian, these prices maintaining the recent firmer tone.

FENNEL-SEED is scarce, and 27s. 6d. per cwt. is now required for small lots on the spot.

FENUGREEK-SEED is firm at 9s. to 9s. 3d. per cwt. for Morocco.

GAMBIER.—Small sales of cubes have been made at 38s., and block at 32s. spot.

GUINEA GRAINS.—An arrival of ten bags has taken place in Liverpool, from whence 73s. is quoted; on the spot prices are about 75s.

HONEY.—Judging from advices which have been received from various shippers of Jamaica honey, the recent hurricane appears to have caused serious damage to the apiaries in various districts of the island, and exporters have reason to believe that the market will be dearer in consequence. Prices of new crop Jamaica for shipment vary from 29s. to 33s. c.i.f. as to quality. Over 300 cases have arrived from San Francisco to London this week.

HYDRASTIS.—On the spot small lots are offered at 8s. 7d. net, and slightly less for quantity.

LIME JUICE.—The "Atrato" has brought 236 packages from Dominica. There is very little demand at the quoted prices of from 11d. to 1s. per gal. for fair to good.

LINSEED continues very scarce, and business has been done at 65s. to 66s. per quarter for good clean on the spot.

MENTHOL.—A fair business has been done at higher rates, principally for arrival for American and Continental account, the sales including Kobayashi at 8s. 3d. to 8s. 4½d. c.i.f. for near at hand, Suzuki for January-March at 8s. 4d. c.i.f., closing buyers of the latter at 8s. 4½d. c.i.f. From first-hands Kobayashi is quoted 8s. 7½d. for January-March. The spot sales include Suzuki at 8s. 4½d. and 8s. 6d. for Kobayashi, but 8s. 7d. is now generally asked. The recent buying reveals that the spot stocks are by no means large, and several holders are not offering.

OIL, ANISE, STAR.—Small spot sales have been made at 4s. 7d., and a little more is available at this figure; for shipment prices vary from 4s. 3½d. to 4s. 5d. c.i.f.

OIL, BERGAMOT.—According to advices from Reggio, the market shows an advancing tendency, sellers continuing reserved. New crop for shipment varies from 15s. 9d. to 16s. per lb. c.i.f. for finest quality.

OIL, CASSIA.—An advance of 2d. is asked for shipment, 80 to 85 per cent. c.a. offering at 3s. 8d. c.i.f., and on the spot 4s. is wanted.

OIL, CITRONELLA.—Ceylon is steady at from 1s. 0½d. to 1s. 1d. in drums, and 1s. 1½d. to 1s. 2d. per lb. in cases

on the spot; for January-March shipment 11½d. c.i.f. London has been paid.

OIL, COD-LIVER.—The recent firmer tone in Norway appears to be due to sellers holding off the market, in the hope of realising better prices for their unsold stock, of which there is plenty available. At the moment there is a wide variation in prices asked by agents on this side, from 70s. to 80s. being quoted. Business is said to have been done at 72s. 6d. c.i.f., and further bids are being submitted. Judging by the exports from the whole of Norway this year (about 40,000 barrels), consumption has not come up to expectations, and the inference is that there is a large quantity, probably between 20,000 and 25,000 barrels on hand in Norway. Our Bergen correspondent writes on December 20 that the market is firm at the equivalent of 72s. per barrel c.i.f. terms for finest non-congealing oil. The exports from Bergen amount to 15,797 barrels, against 22,080 barrels at the same date of last year.

OIL, GERANIUM.—Genuine Bourbon, the distillation of which is in the hands of a syndicate, has recently advanced in spite of large supplies. Formerly the price was about 8s., but the spot price of one importer is 10s. 8d.

OIL, LEMON.—The latest advices from Palermo indicate that the lemon oil market is in an unsettled condition, both buyers and sellers continuing to maintain a reserved attitude. The increased export duty on citrate has somewhat upset the market, and unless lemon growers can be induced to sell their lemons at very low rates, the manufacture of citrate will be difficult. It is possible, therefore, that the manufacture will cease for a period, and any stoppage would influence the market for lemon oil. A solution to the present difficulty will have to be found, because the lemon growers and workers in the manufacture of citrate and oil process, who will suffer under the increased export duty, are likely to cause disturbances, should the Government persist in its intention to bolster up the Camera by attempting to stifle the citrate manufacture for a time. On the other hand, from the lemon growers' point of view, it will always be more convenient to sell the lemons for what they will fetch, rather than allow them to rot on the trees. It would therefore appear that the manufacture of citrate and lemon oil is, in any case, likely to be delayed, and the season will be later than usual. Later advices than the above indicate a firmer tone, with several agents offering good brands at from 3s. 1d. to 3s. 3d. per lb., c.i.f., London.

OIL, LIME.—The "Atrato" has brought 28 packages from Dominica. Market is quiet, at 1s. 6d. per lb. nominal.

OIL, LINALOË.—Increased consumption has taken place this year owing to the scarcity of linalyl acetate. New crop oil is quoted at 10s. 6d. per lb., while that obtained from seed is 1s. less.

OIL, ORANGE, like lemon and bergamot, shows an advancing tendency at primary sources, the values of finest brands being from 6s. 6d. to 6s. 9d., c.i.f.

OIL, PEPPERMINT.—Quiet, with the best brands of Wayne County offering at 8s. 6d., and H.G.H. at from 10s. 9d. London terms.

OIL, TURPENTINE, is practically unchanged on the week, American closing at 39s. 6d. on the spot.

OPIUM.—The London market has practically closed down for the remainder of the year, there being no business to report.

Writing on December 11, a Smyrna correspondent informs us that the sales amounted to 135 cases, of which 130 cases were for the U.S.A. at 170 piastres, or equal to 18s. 6d. per lb. c.i.f. European ports for extra Karahissar, one case Yerli at 18s. 6d., and five cases for interior speculators at 170 piastres to 173 piastres. This slightly easier feeling caused by the absence of buyers during the previous three weeks and the haste of small sellers to take their profit, will now contribute to a steadier feeling. The arrivals amount to 1,791 cases, against 1,941 cases at the same date of last year. Writing on December 11, another Smyrna correspondent confirms the above sale of 135 cases, including 130 cases extra Karahissar t.q. at 171 piastres, or 18s. 5d., three cases ditto at 174 piastres, or 18s. 7d., and one case Yerli at 181 piastres, or 19s. 5d. Native speculators bought five cases at 174 piastres, and holders now refuse to go under 176 piastres,

or 18s. 11d., as 15 cases are still wanted to complete American orders.

A Salonica correspondent, writing on December 13, states that although still maintaining a very firm attitude owing to the insufficiency of stocks, native holders accepted slightly lower than the top rates of November, but some important orders were executed this week for account of American firms, and this encouraged them to strengthen the rates. The sales for the fortnight ending December 13 amounted to 163 cases, against 120 cases last year. The following figures relate to the stocks in primary markets at the beginning of December:

	1908.	1907.	1908.	1909.
Cases ...	2,955	2,556	3,060	1,015

The prices that have ruled during the fortnight have been as follows: Druggists', 16s. 3d.; to 17s. 6d.; richest manufacturing opium, 18s. to 18s. 3d.; soft shipping opium, as to quality, 17s. to 18s. 3d., per lb.

An advice from Smyrna dated December 18 reports sales of 27 cases for the U.S.A. at 170 piastres, or 18s. 6d., c.i.f. Large holders are still abstaining from selling, and the foregoing sales have been effected with difficulty. The question exciting most interest is the stock figures. The stock in Constantinople is known to be 3,000 cases, of which 800 are of inferior quality. In Smyrna estimates are divided between 500 and 650 cases, of which 100 to 150 are of inferior quality. Arrivals amount to 1,077 cases, against 1,956 cases last year.

PEPPER (BLACK).—Quiet, with small sales of Singapore on the spot at 4d. per lb., and sellers of January-March shipment at 4½d., and March-May at 4½d. c.i.f.

PEPPER (WHITE).—Small spot sales of fair Singapore have been made at 7d. to 7½d. per lb., and for arrival sellers quote March-May at 7d. c.i.f. d.w.

POTASH SALTS.—The "Times'" Berlin correspondent states that the Prussian Government is promoting in the Federal Council a Bill to regulate the production and sale of potash salts for the next twenty years. By the erection of a trading corporation, which will supersede the existing syndicate and will completely control sales, it is sought to prevent the "squandering of potassium salts abroad at unduly low prices," and by making the opening of new works depend strictly upon increase in sales, it is sought to remove the main obstacles to effective syndication of the potash industry. It may be remembered that considerable difficulty was experienced a few months ago in bringing the potash firms into harmony, and the collapse of the syndicate seemed at one time to be not improbable. The Government then announced that if the firms did not agree export duties would have to be imposed.

QUICKSILVER.—The importers' price remains at 9d. 15s., but second hand is a shade easier at 9d. 15s. per bottle.

QUILLIA. —There is little alteration in spot prices, which are from 51l. to 52l. per ton net, but to arrive 27l. 10s. c.i.f. London is quoted in one quarter, being cheap. The *Sarmiento*, from Valparaiso to Liverpool, has brought 684 bales.

QUININE. —The firmer tone of last week is maintained, and although speculation is a dead letter, there has been some quiet buying lately of small cheap parcels of German brands. These have now been absorbed, and we do not suppose it is possible to buy B. & S. or Brunswick at under 7d. for old and 7½d. for recent from second hands. The improvement is not so marked on the "outside" brands, Amsterdam being obtainable at 6½d. and Java at from 6½d. to 6¾d. per oz., with a fair inquiry at these figures. It is said the brokers for Java quinine have withdrawn an offer. The note which we publish on another page on Java cinchona developments is of interest in this connection, especially the fact that the Government plantations are to reduce their output by 500,000 kilos. next year.

At the auction held at Batavia on December 15, 6,001 kilos. Ed. II. were offered, of which 5,809 kilos. were sold at an average price of 10.50 fl. (=about 3 cents Amsterdam unit), against 10.20 fl. (=about 2.85 cents Amsterdam unit) at the previous auction. An auction was also held on December 17 by the Amsterdam Quinine Works, when 1,417½ kilos. Ed. II. were sold at an average price of 10.89 fl. per kilo., against 10.89½ fl. paid at the previous auction. The next auction will be held on December 31, and will consist of 1,417½ kilos. (50,000 oz.). The exports of "quinine, quinine salts and combinations" from Germany during the ten months ending October were as follows:

	1907.	1908.	1909.
Kilos. ...	165,100	110,000	133,200

SANTONIN.—This week advices have been received from the Hamburg agents of the Turkestan factories that they have fixed their official prices as follows:—Under 28 lb., 34s. 3d.; 28 lb., 33s. 9d.; 55 lb., 33s.; and 1 cwt. lots 33s. per lb. c.i.f. London net prompt cash. The above prices are somewhat lower than had been anticipated, but makers are very reticent as regards delivery, so that uncertainty prevails on this point.

SASSAFRAS, BARK OF ROOT.—Holders in the U.S.A. ask the higher rate of 10d., but on the spot slightly less will buy.

SENEGA.—Quiet at from 2s. 5d. to 2s. 6d. per lb. net on the spot, according to holder.

HELLAC is steady, with small spot sales on the basis of 67s. to 68s. for fair TN Orange, and for January-February shipment sellers quote 68s. c.i.f.

TONKA BEANS.—Angostura are obtainable at from 5s. to 5s. 3d. per lb. on the spot.

TURMERIC.—Madras finger is quoted 17s., and Bengal at 20s. spot, while for December-January shipment to the Continent 16s. 9d. c.i.f. has been paid. Small sales of Cochin split bulbs have been made at 13s. 6d.

WAX (VEGETABLE).—Japan is steady at 45s. on the spot, the arrival values being from 40s. to 40s. 6d. c.i.f.

WOOD OIL.—Small spot sales of Hankow have been made at 29s. net.

Continental Drug and Chemical Markets.

CHYRSAROBIN.—The offers of araroba which a little while ago appeared in the market have recently decreased, so that the falling tendency has been checked, and, generally speaking, the market is steadier.

CITRIC ACID.—Here and there it has been thought necessary to cover partial needs. These sales have contributed to a steadier situation, and quotations of 290m. for immediate delivery and for the first few months of 1910 are being met with.

HYDRASTIS. —More interest has been shown, 18.75m. being paid, and nothing is obtainable under this figure for delivery.

HYDROCHLORIC ACID (CRUDE) is being offered in various quarters at extraordinarily low prices. Present quotations are some 50 per cent. lower than those of last year, and on every side there are large stocks, so that depressed conditions may be counted upon to last well into the coming year.

KOTA.—During November supplies practically failed, but the higher prices ruling quickly brought further shipments, and stocks have been renewed. Fairly large shipments are on the way, as the crops have not yet been exhausted; the lower prices now range from 56m. to 60m. per 100 kilos. on the spot (Hamburg).

Lycopodium. —It would appear to be confirmed that the crops are normal, and values have somewhat decreased. Case goods are offered at 3.40m. and 3.35m. per kilo. ex Hamburg warehouse.

MILK-SUGAR.—Despite the active demand in the interior and the decrease of production, a steady tendency has not yet made itself felt. The ranks of the "outsiders" have been swelled by an apparently large new factory, which is undercutting the syndicate prices, though only to a slight extent. Should this outside competition make itself more actively felt, further price-cutting may be expected to take place, while a reduction in syndicate prices would be unavoidable. Whereas in Germany milk-sugar is being quoted at about 110m., foreign markets are quoting on an average 76m. Owing to an apparently imminent duty, French buyers are coming to the fore.

QUILLIA. —The large arrivals on the various markets have brought about an easier tendency. Spot (Hamburg) is quoted at 62m. to 63m. per 100 kilos., while new is offered for delivery at 57.50m. to 58m. Cut is quoted 67.50m. and 70m., according to quantity.

SENEGA.—Owing to higher prices in America, several lots offered on the Hamburg market were quickly taken up at 5.50m. per kilo., and further transactions were effected at 5.60m.

TARTARIC ACID appears to have reached its lowest value, and it is not anticipated that a further reduction will take place in view of the present situation of raw material, despite the great depression.

VANILLIN has for some time been in an uncertain position. Widely differing quotations are current, but the general tendency is towards lower prices, and purchases could be effected at between 28m. and 29m. per kilo.



TO CORRESPONDENTS.—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

Almond-oil Substitutes.

SIR,—I shall be glad if you will allow me space to refer to the trade name "oleum amygdala persicæ," which came in for discussion at the evening meeting of the Pharmaceutical Society last week (*C. & D.*, December 18, p. 929). Nearly four years ago, in an article on "Misleading Trade Names" (*C. & D.*, March 24, 1906), I wrote: "Among the fixed oils we find the oil expressed from peach or apricot kernels still referred to by some firms by a compound name containing the word 'amygdala'; while several years ago the misnomer was expunged from my firm's price-list, a footnote following "oleum amygdala ang. B.P." explaining that "the oils from peach-kernels, etc., are quoted under the title 'oleum persicæ,' q.v." My firm's label, too, reads, and has read for years, "Oil Persicæ, the oil expressed from peach or apricot kernels." The course adopted has not resulted in any hindrance to business. The origin of the name "oleum persicæ" is sufficiently obvious; adopting what I believe to be most modern botanical nomenclature, *Prunus Amygdalus* is the almond and *Prunus persica* is the peach. Almond oil is officially designated "oleum amygdala," hence I proposed and have used "oleum persicæ" for the oil from peach-kernels. True, the substitute now is obtained largely from apricot-kernels, so that the name has lost something of its botanical and logical value; but even so it is better than the commercial name, which contains, in addition, the more serious error, the word "amygd." But there is another and more cogent reason why the misnomer should be discarded by pharmacists. Any name for the cheaper or substitute oil which comprises the root "amygd." is an aid to fraud. Some cases, one quite recent, have been brought to my personal knowledge, in each of which a pharmacist has purchased as "ol. amygd., guaranteed genuine," an oil below the market value of almond oil. The samples have been sent to me, and have proved not to be almond oil at all, but the substitute. In each case the defrauded pharmacist has been met with the explanation (!) that "the oil is genuine oleum amygd. persicæ." Such things could scarcely happen if the name of the substitute did not include the name of the genuine thing. On commercial utility grounds, as well as for academic reasons, then, the misnomer "ol. amygd. persicæ" should be consigned to strict oblivion.

Yours faithfully,
CHARLES ALEX. HILL.

Graham Street, City Road, N., December 18.

SIR,—According to Mr. Sage, Persian almond oil might take the place of genuine English almond oil. This I consider to be a mistake, and I am inclined to believe with Mr. C. A. Hill that peach-kernel oil and apricot-kernel oil were much too leniently treated. It does not appear that any reference was made to the fact that these oils are driers, both being quite different in this respect from the genuine article. I published a statement to the contrary many years ago, but I have since satisfied myself that this is not the case. They dry slowly, it is true—much more slowly than linseed oil, or even than poppy-seed oil—but driers they are nevertheless, and this property unfitts them for some of the medicinal purposes to which almond oil is applied. Genuine almond oil is also used as a lubricant for fine machinery, such as clocks and watches, for which purpose drying oils are obviously quite unsuitable. It is

a great pity that the name Persian almond was ever used for the oil, as the relatively low price is always a temptation to substitute it for English-pressed almond, by those who are ignorant of the nature of these oils. I agree with Mr. Hill that even yet a distinctive name might be adopted, and there is no reason why "ol. persicæ," "persic oil," or even plain "Persian oil," might not answer the purpose quite satisfactorily.

Yours faithfully,

London, December 18.

T. MABEN.

Adulterated Olive Oil.

SIR,—Under this heading you publish a quotation from a broker's report (*C. & D.*, December 18, p. 944), which indicates that arachis oil is being largely used for admixture with olive oil. May I be allowed space to confirm this statement and to suggest to pharmacists, wholesale as well as retail, that there never was a time when they needed to use so much caution in making purchases? The adulterated oil gets into distributors' hands by some means or other, and I am sorry to say that the excuse for selling it is generally, "We bought it as B.P. oil and it passes the B.P. tests: what more do you want?" Unfortunately, good arachis oil is not the only thing employed: very inferior grades of olive oil are sold and mixed with better ones to meet prices, and the resulting products are capable of fulfilling the very deficient B.P. requirements.

Yours faithfully,

41 Cheapside, E.C., December 18. C. EDWD. SAGE.

Who Stocks the Best?

SIR,—I should like to lodge my protest against "Helium's" suggestion in last week's *C. & D.* that customers can get better value at private chemists' shops than they can at company chemists' shops. As manager of a branch belonging to one of the largest drug companies, I can honestly say that the drugs we sell are B.P. and quite equal in quality to those found on the shelves of the private dealer. Moreover, having a quick turnover, they are often fresher. "Helium," as a chemist, will know how important it is to have a ready sale for drugs. I am inclined to agree with "Yorkshire" that the chemist of the future to make a living will have to work his business on the drug-store principle, but do not agree with him that they should have a little less "touch-me-not" cuff-and-collar order, seeing that all company chemists' shops are now under the management of chemists quite as smart and up to date as our private pharmacists.

Yours faithfully,

MAJOR. (19/52.)

Otto of Rose, 1909.

We are indebted to Mr. John C. Umney, F.C.S., for the following extract from a letter which he has received from a Bulgarian otto-of-rose expert :

It was with the greatest interest and pleasure that I read your fine article in the *C. & D.* of November 20, and I hasten to express to you my sincerest thanks for so ably defending the true interests of our beautiful industry. I have battled for the cause of pure otto of rose these twenty-four years, but as yet I have neither succeeded to suppress adulteration among the growers, nor to make all exporters to send out only pure otto of rose. So long as there is a large demand for cheap grades, and so long as our speculators and sophisticators can sell their grossly adulterated as pure otto, and often under the guarantee of answering the analyst's tests, the sophistication of otto, in spite of all our efforts here, will thrive and ever increase. All we may do here to check, to limit, to discourage, to prevent the spread of adulteration will be of no avail so long as the demand for cheap and commercial otto is not stamped out. When chemists of your high standing and wide reputation become advocates and champions of pure otto and raise their powerful voice or use their mighty pen to expose the fraud practised, the cause of pure otto is sure to win. Once the eyes of consumers are opened to the ingenious methods of doctoring otto of rose the demand for cheap goods will rapidly decrease. I fully endorse the five conclusions which you draw from the figures you give about this year's otto and the 1896 otto of rose. Up to 1898-1900 the chief adulterants used were almost exclusively Indian ginger-grass and geranium oils and Algerian geranium; but since 1900 the adulterants used are synthetic otto of rose, geraniol, citronellol, phenylethyllic alcohol, natural stearoptene, and other synthetics specially prepared abroad for the purpose of enabling otto of rose thus adulterated to answer the B.P. or the U.S.P. or Parry's or your

tests. This makes it all the more imperative why buyers or users of otto should get their otto supply only from the most reliable firms. The characters of our otto-of-rose crop of 1909 are very nearly the same as the characters of 1896 otto. They vary very little indeed. Here they are, as we have taken them:

	Sp. gr.	Op. Rot.	Ref. Index	Melting-point	Total alcohols
Our distillations ...	0.8570	-2°.30'	1.4635	22	70.25%
London stock ...	0.8°.73	-2°.30'	1.4630	22	68.5%
Paris stock ...	0.8570	-2°.25'	1.4629	22	70.5%
German and Russian stock ...	0.8570	-2°.45'	1.4628	22°	71.0%
New York stock ...	0.8568	-2°.40'	1.4626	22	69.0%

The crop this year would have been only 130,000 oz. if all the otto of rose distilled this year were pure. When it was checked it turned out over 175,000 oz., and when all exported it will further increase to 190,000 oz.

Standardisation of Disinfectants.

SIR.—If any further evidence were required that it is impossible to standardise disinfectants as a whole by any one test, it has been furnished in abundance by the report of "The Lancet" commissioners (*C. & D.*, December 11, p. 899). Notwithstanding the large amount of chemical and bacteriological work they have done, it does not mark any advancement in respect of what was previously known concerning the subject. "The Lancet" commissioners have apparently recognised the impossibility of determining the disinfectant value of perchloride of mercury, chloride of lime, and formalin by the bacteriological test which they describe, and yet they have examined "Sanitas Fluid" by it and classified it as a coal-tar disinfectant, although that liquid contains no coal tar and is quite as dissimilar in character from coal-tar preparations as are the three other articles above named. In regard to their experiments and report on coal-tar disinfectants, serious objection is to be taken against the chemical part of the investigation, inasmuch as the chemical process employed to determine the percentage of active principles in these various preparations fails to give satisfactory results. By way of proof "The Lancet" process has been employed in our laboratories in respect of a mixture known to contain 88 per cent. phenoloids, but it only showed the percentage of 60 per cent., whereas in respect of a disinfectant liquid known to contain 52 per cent., Mr. Wynter Blyth's acetone process showed it to contain 54 per cent.—a much more satisfactory result—while "The Lancet" process gave only 34 per cent. As for the bacteriological test which has been made, it simply gives the relative values of the coal-tar disinfectants which were subjected to examination in respect of *Bacillus coli* under the special circumstances observed: just as the standardised *B. typhosus* (Rideal-Walker) test gives relative values in respect of *B. typhosus* under the special conditions observed in that test. In neither case do the results indicate the real disinfectant values of the preparations nor reproduce the conditions under which disinfection has to be carried out in practice by the medical profession and the public at large. This seems to be recognised by the commissioners themselves, for they state that "the conditions of the test are (so) far removed from those of natural disinfection." Up to a point I personally have little cause for complaint, for according to the results which have been published by "The Lancet" commissioners, "Sanitas-Bactox" ranks, among the homogeneous liquids which were tested, equally with one other preparation, as the highest in germicidal power, on the one hand, and takes top place when the cost is compared on a basis of efficiency and in ratio with carbolic acid. When, however, it is examined by the Rideal Walker test it gives a co-efficiency of 20 at least, whereas the other disinfectant mentioned only reveals a co-efficiency of about 15. Again, "Sanitas-Okol," takes first place among coal-tar disinfectants of the emulsion order both with respect to co-efficiency and comparative cost. The bacteriological test which has been employed is really only applicable to coal-tar disinfectants, and it, in common with the so-called Rideal-Walker test, cannot be employed to ascertain the comparative values of disinfectants of other chemical composition. For example, corrosive sublimate, the manganates and permanganates, hypochlorites, sulphurous acid, formaldehyde, peroxide of hydrogen, ordinary "Sanitas Fluid," and many other well-known

disinfectants of varying chemical nature and action are not amenable to such tests, so that their disinfectant values cannot be determined by any such method. "The Lancet" commissioners have altogether disregarded the valuable inhibitive and antiseptic properties of the disinfectants above enumerated, and no attention whatever has been paid to their behaviour as oxidising agents or to their chemical activities in other directions. They have also paid tribute to the autocracy of microbes, but have disregarded altogether the matter of their environment. Every student who has paid the most cursory attention to the subject knows perfectly well that disease is not produced by the mere mechanical presence of micro-organisms, but by their production through chemical reactions of definite poisonous substances, and it is these poisonous substances that constitute the true infectants of disease, and not the microbes themselves. Practical disinfection, therefore, aims at preventing the formation of such infective material, on the one hand, and of destroying it, if and when produced, on the other hand, and is not confined to the mere destruction of universally distributed micro-organisms which, in their proper sphere and under proper control, constitute one of the most beneficent orders of creation. Germicidal value, therefore, is no measure of disinfectant value; removal by washing (cleanliness) is really much more efficacious, up to a point, than destruction of microbial life by the application of germicides, so that rarely is the use of strong germicides called for, at any rate, at the hands of the public, and "Sanitas Fluid" is for most of such uses more than sufficiently strong and may often indeed be diluted with several times its own quantity of water before use. As "The Lancet" has itself recently observed, "there is no factor more favourable to successful invasion of the human body by disease-producing organisms than when the air is rendered stale, warm, and musty," but no one would dream of resorting to the use of strong coal-tar germicides for the purpose of changing the chemical character of such air. Resort would, of course, be had to the employment of a preparation like "Sanitas Fluid" or peroxide of hydrogen, both of which are capable of doing what is wanted by way of germicidal action in addition to their particular value of restoring oxygen to the impure air and the destruction of foul organic matter. The only measure of utility of any disinfectant that is offered for public use is the extent to which it may be satisfactorily employed for the purposes for which it is advocated, and "The Lancet" commissioners have not made any serious attempt to grapple with the problem from this the only rational standpoint.

C. T. KINGZETT, F.I.C., F.C.S.,
ex-Vice-President Society of Public Analysts; Author
of "Nature's Hygiene," etc.

Apothecaries' Assistants.

SIR.—Apparently from your statement in last week's issue a qualified apothecaries' assistant is exempt from the Pharmacy Act providing he manages the retail department of an apothecary, and yet is liable if he fulfils the same position to a pharmacist. To all intents and purposes do not the two amount to the same service? Under such a circumstance I fail to see why the Pharmaceutical Society should not utilise the enabling clause in the 1908 Act, and accept them on the same terms and exemptions. There is no doubt that pressure will be brought to bear in due course to enforce registration, and to register such as pharmacists' assistants would give some of the pharmacists who at present are unable to pay a Minor man, and consequently run their branches as drug-stores, a chance to employ men that have had some training and yet be within the law.

Yours faithfully,

JACOS. (18/71.)

[There is a great difference between the exemption of a business and the exemption of a person. The apothecary's business is exempt, but a medical practitioner's is not—only himself—so that an assistant to an apothecary may act legally while with him, but illegally when doing exactly the same things for a medical practitioner, or for a chemist or himself or anybody else. The 1908 Act does not authorise the Pharmaceutical Society to register chemists' assistants without examination; had it done so, perhaps "Jacobs" might have perceived the absurdity of the present situation.—EDITOR C. & D.]

German Alcohol Super-tax.

SIR.—I have been interested in the way the spirit-duty has been handled in England, especially in regard to medicinal preparations, particularly as the similar duty has recently been raised in Germany, and apothekers are finding it press heavily upon them in increased stringency of regulations as well as higher duty. Since October 1 the duty has been increased by 35 pfennigs ($\frac{4}{4}d.$) a litre. All alcohol, whether in bond or in the hands of wholesalers, retailers, or private persons, had to pay this surtax. Alcoholic preparations containing over 20 per cent. of alcohol not intended for internal use and prepared from duty-paid spirits were also subject to the super-tax. Preparations for external use not containing more than 20 per cent. of alcohol, and all alcoholic preparations not intended for internal use ready packed for sale, provided the weight of each package does not exceed one kilo., were not touched, this being in deference to apothekers and druggists; but they have gained little by it, as most alcoholic preparations contain over 20 per cent. The regulations required all persons possessing more than the exempted quantities of brandy or alcohol to report their stock within a week. The Revenue authorities on receipt of the required declaration had to verify the statements made and, if necessary, examine the business books. The Saxon Customs authorities were the first to recognise the difficulties involved in rigidly applying the regulations, and decided that the pharmacist shall class his alcoholic preparations into different groups, each embracing preparations of the same alcoholic strength. The contents of the bottles may be approximately determined. In consequence of the increased tax, the retail prices of tinctures and alcoholic preparations have been increased, so that tinctures which formerly were sold at the rate of 100 grams for $8\frac{3}{4}d.$ are now sold at $10\frac{1}{2}d.$ for 100 grams. In contrast with these regulations, the English method seems as simple as A B C, and English pharmacists should be thankful that they have not had to pay surtax upon their stocks.

Yours truly,
APOTHEKER. (14/12.)

Subscribers' Symposium.

(Information Received or Solicited)

What is Mag. Carb.?

G. L. (14/47) asks C. & D. readers to say whether light or heavy magnes. carb. should be used in the following mixture:

Mag. carb.	...	...	...	5iv.
Tr. rhei co.	...	...	...	5v.
Sot. chlorof.	...	...	...	5ij.
Tinct. nuc. vom.	...	...	...	5j.
Aq. menth. pip. ad	...	...	...	5vij.

To the "C. & D."

[The following lines by a veteran pharmacist come to us with a sketch showing the C. & D. on the bow flag and "Success" on the mizzen.]

When sailing in life's passage-boat,
That man must be a Goth,
Who doth not always cut his coat
According to his cloth.
Then let us not from duty shrink,
Tho' heckled on our way;
And never cease to advertise,
For "certain 'tis to pay."—R. G. M.

Needless to say, the C. & D. has a home here, and I should like to say that to me it is one of the "indispensables" of our calling.—ARTHUR A. WHITE (Beaconsfield).

The C. & D. and the Pharmaceutical Society.

There is no doubt that the C. & D. is an excellent trade-journal, and up-to-date chemists would do well to peruse its columns regularly, but it is unfortunate that the dominant tone should be antagonistic to the Pharmaceutical Society, and I should be, as would no doubt many others, much gratified and far better pleased if help were given to the Society to further the well-being of pharmacists and help them out of their present anaemic condition.—L. S. WOOLF (Chelsea) [Criticism of the Council's public policy is not necessarily antagonism to the Society, and C. & D. criticism has been declared by a President of the Society to be conspicuously fair—a standard which it is our constant endeavour to maintain.—EDITOR C. & D.]

Epicocona.

We have received under this name a sample of bark described as a drug from Bombay, but have failed to trace the name in any work dealing with medicinal plants of India. The sample is of a corky texture, grey colour, with deep irregular fissures on the exterior. This description agrees very nearly with that of the bark of *Euonymus hamiltonianus*, a large shrub of the Himalayan region and China. The wood of this species is very similar in appearance to that of boxwood, being of a light colour, close and even grained, and valued by the Chinese for carving; it has also been tested in this country as a substitute for boxwood for engraving purposes, but was not thought very highly of. So far as can be gathered, the bark has no economic value.

Dispensing Notes.**Effervescing Bismuth Mixture.**

SIR.—I received the following prescription to dispense:

Soda bicarb.	...	...	...	gr. 110.
Tr. opii	...	...	...	mxx.
Aq. menth. pip. ad	...	...	...	5vij.

The alkaline mixture.

P. ac. citric.	...	...	...	gr. 80.
Bism. subnit.	...	...	...	gr. 160.
Ac. hydrocyan. dil.	...	...	...	mxiij.
Aq. ad	...	...	...	5iv.

The acid mixture.

The mixture was taken every two hours the first day and was all right; but on standing over night the last dose had practically lost all its effervescence. The repeat mixture was only given twice a day, and after about two doses the same thing occurred—viz., effervescence had ceased. Can you explain this? An early reply will oblige, as the doctor is anxious to know the reason. 5ss. of p. frag. co. was used to suspend the bism. subnit. Yours truly,

Scor. (11/12.)

[The acid mixture is on the lines of a process for making bismuth citrate. The citric acid enters into combination with the bismuth and forms bismuth citrate. Suspended in the mixture by means of compound powder of tragacanth, the bismuth is in a condition most favourable for obtaining completion of the reaction in a short time; hence the rapid deterioration in the production of effervescence. A little free nitric acid is liberated, but it is insignificant as an equivalent to the citric acid. You will have to recommend the prescriber to order bismuth carbonate and put it into the alkaline mixture.]

Nux and Iron Mixture.

SIR.—I have recently had the following prescription to dispense, and made the mixture in the usual way by diluting each ingredient and using fresh infusion. The result was an almost clear and colourless mixture. My customer has returned this, and has told me that when previously prepared in a neighbouring town the medicine was opaque in appearance, although the taste was similar to my preparation. For our mutual satisfaction my customer agreed to send the "scrip" to be again dispensed at the same establishment. The mixture has been shown to me, and I find it to be exactly as described. As I am quite unable to account for the difference, I shall be glad if you will come to my aid in offering a solution of what is to me somewhat of a mystery.

Tinct. nucis vom.	...	...	...	mxi.
Acid. phosph. dil.	...	...	...	5ij.
Liq. ferri perch.	...	...	...	mxi.
Inf. quassiae ad	...	...	...	5vj.

M. Ft. mist.

Sig.: 5ss. t.d.s.

Yours truly,

J. W. C. (50/75.)

[The opacity is most probably due to fat in the tincture of nux vomica. The present B.P. tincture contains much less fat than the 1885 tincture.]

Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216, (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 221; and Legal matters generally, p. 233.

M. P. S. I. (103/5).—Turn to p. 240 of the C. & D. Diary, 1910, for information in regard to copyright of photographs.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

J. O. E. (251/7).—BLACK INK FOR COPYING-PAD.—This is not such a success as the usual violet ink. It is made as follows:

Induline R	...	...	...	5iss.
Glycerin	...	...	...	xxv.
Alcohol (60 per cent.)	...	...	5j.	
Water	...	...	...	5iss.

Dissolve.

Another method of making a black ink is to combine methyl violet, aniline green, magenta and chrysoidine in a medium such as is given above.

A. H. H. (10/51).—BOOK ON BUYING A BUSINESS.—Bromley's "How to Buy a Business" (2s. 6d., Unwin).

F. M. M. (256/53).—TO BLACKEN BRASS.—The following are the methods which answer best:

Copper nitrate	...	...	...	10 oz.
Water	...	...	...	20 oz.
Ammonia solution	...	...	...	a sufficiency

Dissolve the copper nitrate in the water and add ammonia until the precipitate at first formed is just re-dissolved. The solution is used warm, the brass article being immersed therein, and when bronzed swilled with water, and either (a) dried out in sawdust, (b) heated after drying out, or (c) immersed in the following solution:

Potassium sulphide	...	...	...	10 oz.
Hydrochloric acid	...	...	...	5 oz.
Water	...	...	...	100 oz.

The results in each case differ in regard to the kind of bronze which is produced.

J. Y. (2/39).—DYEING LEAVES.—Aqueous solutions of aniline dyes can be used for this purpose, the leaves being placed in a hot solution. In cases where the surface of the leaves prevents the dye penetrating it is necessary to soften it by soaking in a hot solution of washing soda. A few experiments will soon show you whether the preliminary treatment with alkali is necessary.

Devonian (59/5).—LIQUID METAL-POLISH.—The ingredients in the formula given in the *C. & D.*, March 14, 1908, p. 433, need carefully grinding together, and the liquids must be added gradually. It is an improvement to make an emulsion of the liquids by replacing part of the turpentine by cotton-seed oil, a homogeneous liquid being more readily formed. The methods of suspending the powders used by manufacturers are similar to this.

E. V. (251/34).—(1) UNGUENTUM MENTHOL.—Lassar's formula is as follows:

Menthol	...	...	...	5iss.
Bals. Peruviana	...	...	...	5v.
Ung. Wilsoni,	...	...	...
Adipis lanæ hydr.	...	...	a.a.	5iss.

Misce.

Ung. Wilsoni is a modified zinc ointment—zinc oxide, white wax, of each 20, almond oil 10, benzoated lard 100.

(2) BUTTER FLAVOUR.—See *C. & D.*, December 4, p. 879.

L. P. S. I. (257/55).—The mangle-lotion probably needs more menstruum, or you may find that if part of the train oil is replaced by mineral oil the trouble will be overcome.

Drops (256/36).—Draaber is Norwegian for tincture or drops. Your foreign customer probably requires cholera-drops and sandal oil for the ship's medicine-chest.

W. O. M. (11/10).—DEODORISING COCONUT OIL.—We do not know the particulars of commercial processes, as these are kept as trade-secrets. See *C. & D.*, November 20, p. 802.

Chemicus (2/27).—DOG SHAMPOO-LIQUID:

Soft soap	...	...	...	30 oz.
Carbolic acid	...	...	...	3 oz.
Eucalyptus oil	...	...	...	1 oz.
Water to	...	...	...	1 gal.

Mix.

Directions.—Wet the dog thoroughly with warm water, beginning with the face. Pour the shampoo-liquid along the back and work up a copious lather on every part of the

animal, adding more water and shampoo-liquid as required. Rinse the dog well in tepid water, wipe dry, and finally exercise.

J. H. (3/42).—(1) BAY RUM:

Oil of bay	...	...	...	5iss.
Oil of pinimento	...	...	...	5vj.
Oil of orange	...	...	...	5vj.
Rectified spirit	...	...	...	5xiss.
Distilled water	...	...	...	5ixss.

Mix and filter bright.

(2) GLYCERIN OF THYMOL:

Thymol	...	...	...	gr. j.
Rectified spirit	...	...	...	5j.
Glycerin of borax	...	...	...	5j.
Compound tincture of cardamoms	...	...	...	5j.
Water to	...	...	...	3xvj.

Mix.

(3) LISTERINE SUBSTITUTE:

Benzoic acid	...	...	...	5j. 32 gr.
Sodium baborato	...	...	...	5j. 32 gr.
Boric acid	...	...	...	5ij. 64 gr.
Distilled water	...	...	...	3xlvii.

Dissolve with the aid of heat. Then add the following:

Thymol	...	...	...	5vij.
Eucalyptol	...	...	...	5ss.
Oil of wintergreen	...	...	...	5ss.
Oil of peppermint	...	...	...	5xv.
Oil of white thyme	...	...	...	5v.
Rectified spirit	...	...	...	3xvi.

Colour with 10 drops of caramel and add distilled water to 1 gal. Let the mixture stand twenty-four hours and finally pass through a wetted double filter sprinkled with fullers' earth.

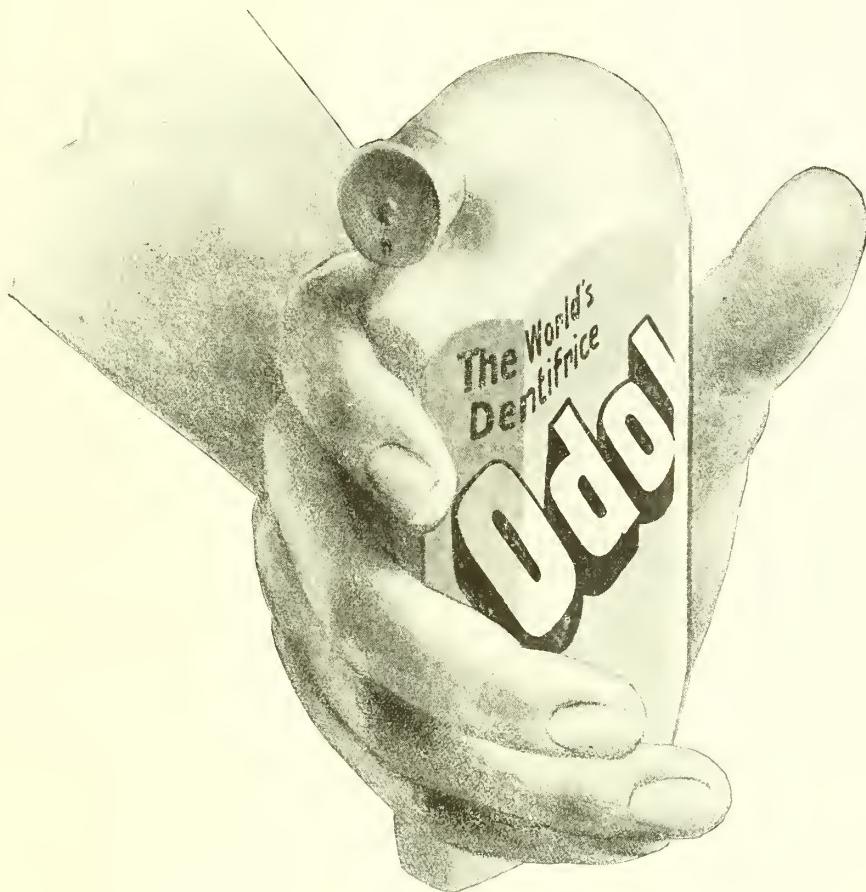
Snail (1/24).—ARTIFICIAL FERTILISERS.—Referring to the answer we gave to your inquiry in the *C. & D.*, December 11, p. 915, it is convenient to remember that the amount thereto given in hundredweights can be expressed in the same figures as pounds per 43 square yards. For potting-purposes 1 lb. of fertiliser is mixed with a bushel of soil. The recipe given for general garden use is for a fertiliser that answers for most crops, but the special formulæ are better in that the ingredients more nearly approach the requirements of the particular plant. Lime can advantageously be applied to all crops a few weeks before the manure is used, such dressing not to exceed 5 cwt. per acre. In lawns near the sea it is not necessary to add kainit to the fertiliser, as the soil is probably already fully supplied with chlorides.

J. W. (5/14).—Any floor-covering may assist in accelerating dry-rot, but none causes it. That is due primarily to the space below the wood of the floor not being properly ventilated. Rubberoid does not ventilate, nor does it accelerate dry-rot more than any other covering.

Information (10/51).—FOR PALE STOOLS IN CHILDREN of four to eight give 10-grain doses of sodium phosphate or sulphate three times daily if you object to mercury; their action would, however, be reinforced by ½ grain of calomel given with each dose. Probably the diet needs modifying—say, more meat and less milk and farinaceous food. Liquid farinaceous preparations are more suited for invalids and feverish patients, because such foods are more diluted, and presumably therefore more digestible, and in the latter class of patients the secretion of digestive juices is somewhat in abeyance, and the higher temperature of the body makes a full supply of liquid advisable. There is no doubt, however, that in many cases of invalidism, and in most cases of convalescence, tasty well-cooked solid food might be given with very great advantage, and it is the writer's custom to follow this plan in practice; the practice is supported by Pawloff's experiments on psychic influence in digestion.

"THE ORGANISER" has a portrait of Sir Jesse Boot as a frontispiece this month. It is stated on the editorial page that a firm of photographers were asked if they had a suitable picture of Sir Jesse in stock. "At what theatre is she appearing?" inquired the man who answered the telephone.

JAMAICA EXPORTS.—Among the exports from Jamaica during the financial year 1908-9 were the following, the figures in parentheses representing those of 1907-8: Annatto, 10,308. (6,926.); beeswax, 5,134. (5,859.); ginger, 43,581. (46,043.); honey, 14,323. (17,496.); lime-juice, 4,753. (4,840.); pimento, 143,623. (70,233.); logwood, 46,401. (72,709.); logwood extract, 114,460. (106,863.).



What especially distinguishes Odol from all other mouth-cleansing preparations is its unique antiseptic properties. After the mouth has been rinsed with Odol an all-pervading influence spreads itself imperceptibly over the whole of the interior of the mouth, exerting its power for hours after the rinsing.

It is this lasting effect (which no other preparation possesses) that gives to daily users of Odol the absolute assurance that their mouths are permanently protected against the processes of fermentation and decomposition which, if not guarded against, inevitably destroy the teeth.

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This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali. A dry white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure
Soda
Crystals.

NOTE.—Proceedings have been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of **FOWLER v. CRIPPS**, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.

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ANTIPRURITIC, ANTISEPTIC, LOCAL ANTIPHLOGISTIC and SKIN NUTRIENT,

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We spared no effort to make this wafer

THE BEST OF ITS CLASS

in therapeutic efficacy—in instantaneous effect—in perfection of form, with the result that to-day although the number of "Wafer" on the market is legion, our make is

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In past years we have sold them in millions, and the sale is ever increasing.

Price in bulk: 3/6 per lb.)	Card Boxes, 2/10 per doz.
28 lbs. 3 4. less 5%	Artistic Tins for the waistcoat
1 cwt. 3/2.]	pocket, 2/- per doz. } nett.

These Wafers average 120 to the ounce.

The card box contains about 90 Wafers.

The small tin contains about 60 Wafers.

Hand-cut—Potential in effect—of beautiful finish.

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Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
Hearon, Squire & Francis.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Iuman's Stores (of Edinboro').
Ismay, John, & Sons.
Lofthouse & Saltmer.
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raines, Clark & Co.
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Silversides, R. B. G.
Southall Bros. & Barclay.
Summer, R. & Co.
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12 " 9/3 do. do. or 9/- do. do.

Under 1½ dozen 40/- per dozen net. Cash with order.

1½ dozen 39/- per doz. net in 30 days, or 38/- cash in 10 days.

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The above terms for 6 dozen 1/- size, or 1½ dozen 4/- size will be given on mixed orders value £3. And our very best terms on mixed orders value £6.

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Specific for acute and chronic affections of liver and biliary passages, gallstones, dyspepsia, fatty stools, atonic constipation.
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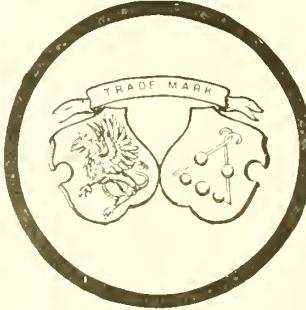
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Diethylbarbituric, 16 oz. @ 36/- lb.; 1 oz. @ 2/8 oz. [2/- lb.]	Glycerin. Opt., D.D., 1-260 P.B., 1 cwt. @ 99/- cwt.; 56 lbs. @ 100/- cwt.; 12 lbs. @ 1/1 lb.	Tolit. P.B., 7 lbs. @ 7d. lb.
Gallipur. B.P., 7 lbs. @ 1/10 lb.; 1 lb. @ 1/6 lb.	Honey, fine White Set, Jamaica, 3½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Caifornian, 56 lbs. @ 56/- cwt.; 7 lbs. @ 8d. lb.	Thymol, 7 lbs. @ 6½ lb.; 1 lb. @ 6/10 lb.
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Tart. crystal. or pulv., B.P., 1885, 1 cwt. @ 9½ lb.; 7 lbs. @ 10½ lb.; parv. 1d. lb. extra. [10½ lb.]	*Arsenic Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.	*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/4 lb. : bond, 10d. lb.
Adeps Benz., B.P., 28 lbs. @ 9½ lb.; 7 lbs. @ 12/- cwt. extra.	Bismuth. P.B., 6 lbs. @ 10½ d. lb.	*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb. : bond, 6d. lb.
Adeps Lan. B.P., Anhydrous, 2 cwt. @ 52/- cwt. @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5½ cwt., 14 lbs. @ 8/- cwt., 7 lbs. @ 12/- cwt. extra.	Copaya. Bucha et Cubeb, 5 lbs. @ 2/6 lb. ; 1 lb. @ 2/10 lb.	*Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; Bond, 6½ d. lb.
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Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.	Ferri Phosph. Co. p.s. 1-7, 7 lbs. @ 1/6.	*Tinct. Myrrhae, B.P., 5 lbs. @ 3/9 lb. : bond, 9½ d. lb.
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Campophor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; 1 oz. 7 lbs. @ 111 lb.; 1 oz. @ 7 lbs. @ 2/3 lb. Crude, gooi white about 92% as imported, 140 lbs. @ 1/4 lb.; 10 lbs. @ 1/5 lb.	Ol. Amygdal. Ang., B.P., 9 lbs. @ 2/3 lb.	*Tinct. Opili, B.P., 5 lbs. @ 3/5 lb. : bond, 2/- lb.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2½ lb.	Ol. Camphor. Essent. White, 80 lbs. @ 42/6 cwt.; 40 lbs. @ 44/- cwt.; brown, 80 lbs. @ 66/- cwt.; 40 lbs. @ 67/6 cwt.	*Tinct. Opili Amon., B.P., 5 lbs. @ 3/4 lb. : bond, 2/0½ lb.
*Ess. Pineapple, 5 lbs. @ 3/4 lb.	Ol. Caryoph. Ang., B.P., 9 lbs. @ 3/3 lb.; 4½ lbs. @ 3/5 lb.	*Tinct. Opili Aquos., 5 lbs. @ 2/1 lb.
*Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.	Ol. Cocoa Nucis, finest White, 80 lbs. @ 48/6 cwt.; 40 lbs. @ 6d. lb.	*Tinct. Quiniae Amm., B.P., 5 lbs. @ 2/6 lb. : bond, 11d. lb.
*Vanilla Beans, 5 lbs. @ 4½ lb.; 1 lb. @ 4/7 lb.	Ol. Eucalypt. B.P., 1 cwt. @ 1½ lb.; 28 lbs. @ 1/2½ lb.; 9 lbs. @ 1/3 lb.	*Tinct. Rhei Ceboi., B.P., 5 lbs. @ 2/2 lb. : bond, 8d. lb.
*Ext. Belladonnae Liq. B.P., 5 lbs. @ 4/7 lb.; 1 lb. @ 5/- lb.; solid, 71 s. @ 2/11 lb.	Ol. Morrhuae, Nov. 1909, finest non-freezing, 25 gall. tin lined barrels @ 77/- per barrel; 2 gall. tins @ 8/- each.	*Tinct. Scillae, B.P., 5 lbs. @ 2/6 lb. ; Bond, 7½ l.
Ext. Cannab. Ind. Alc. B.P., 5 lbs. @ 36/- lb. 1 lb. @ 37/- lb.	Ol. Olivae P.B., good yellow, 45 gall. Barrel @ 4/3 gall.; 2 gall. @ 5½ gall.	*Tinct. Senegae, B.P., 5 lbs. @ 3/1 lb. : bond, 1/3 lb.
Ext. Casearia Sag. Liq., B.P., 10 lbs. @ 1/2 lb. Ext. Ergot. Liq. B.P., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.	Ol. Quininae Sulph., B.P., 100 oz. @ 6½ l. oz. ; 25 oz. @ 7½ l. oz.; 10 oz. @ 8d. oz.	*Tinct. Strobant., B.P., 5 lbs. @ 3/5 lb. : bond, 8½ d. lb.
Ext. Filicis Liq., P.B., 9 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.	Scammony Resin Pulv. B.P., 7 lbs. @ 4/6 lb. ; 1 lb. @ 4/11 lb.	*Tinct. Valerianae, 5 lbs. @ 2/8 lb. : bond, 6d. lb.
Ext. Gent. P.B., Solid, 1 cwt. @ 8½ d. lb.; 7 lbs. @ 9½ d. lb.	Sheilac (Orange), 1½ cwt. @ 72/- cwt.; 7 lbs. @ Soda Caustica, 28-lb. tin @ 8d. lb.; 6 1-lb. Bots. @ 10½ lb.	*Tinct. Valerianae Ammon., B.P., 5 lbs. @ 3/1 lb. : bond, 8½ d. lb.
*Glycrrh. Licq. B.P., 6 lbs. @ 1/4 lb.	Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.	*Tinct. Zingib., P.B., 5 lbs. @ 4/- lb. : bond, 6½ d. lb.
*Hamamelis, Liq. P.B., 5 lbs. @ 3½ lb.	*Spt. Ether Nit. P.B., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.	*Tinct. Zingib. Fortior, 5 lbs. @ 4/3 lb. : bond, 10½ d. lb.
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*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10½ lb.; 1 lb. @ 11½ lb.	*Spt. Chloroformi, P.B., 5 lbs. @ 3/7 lb.	Turpentine, True Venice, 40 lbs. @ 1/3; 9 lbs. @ 1/6. Ung. Acid. Boric. P.B., 28 lbs. @ 6½ d. lb. ; Flav. 28 lbs. @ 4½ d. lb.
Malti c. Ol. Jechoris, 10 lbs. @ 5½ lb.	Strontia. Bromid, 1 cwt. @ 1/2½ lb.; 7 lbs. @ 1/4½ lb.; 1 lb. @ 1/6 lb.	" Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
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Opil. Liq. B.P., 5 lbs. @ 3/11 lb.; 1 lb. @ 3/5 lb.	Sulphur. Hyposulphite, 1 cwt. @ 8/6 cwt.	" Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb. ; 7 lbs. @ 1/2 lb.
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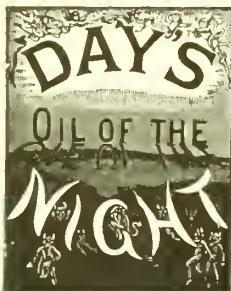
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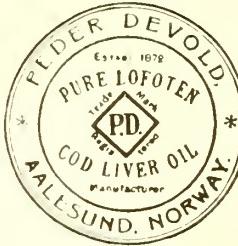
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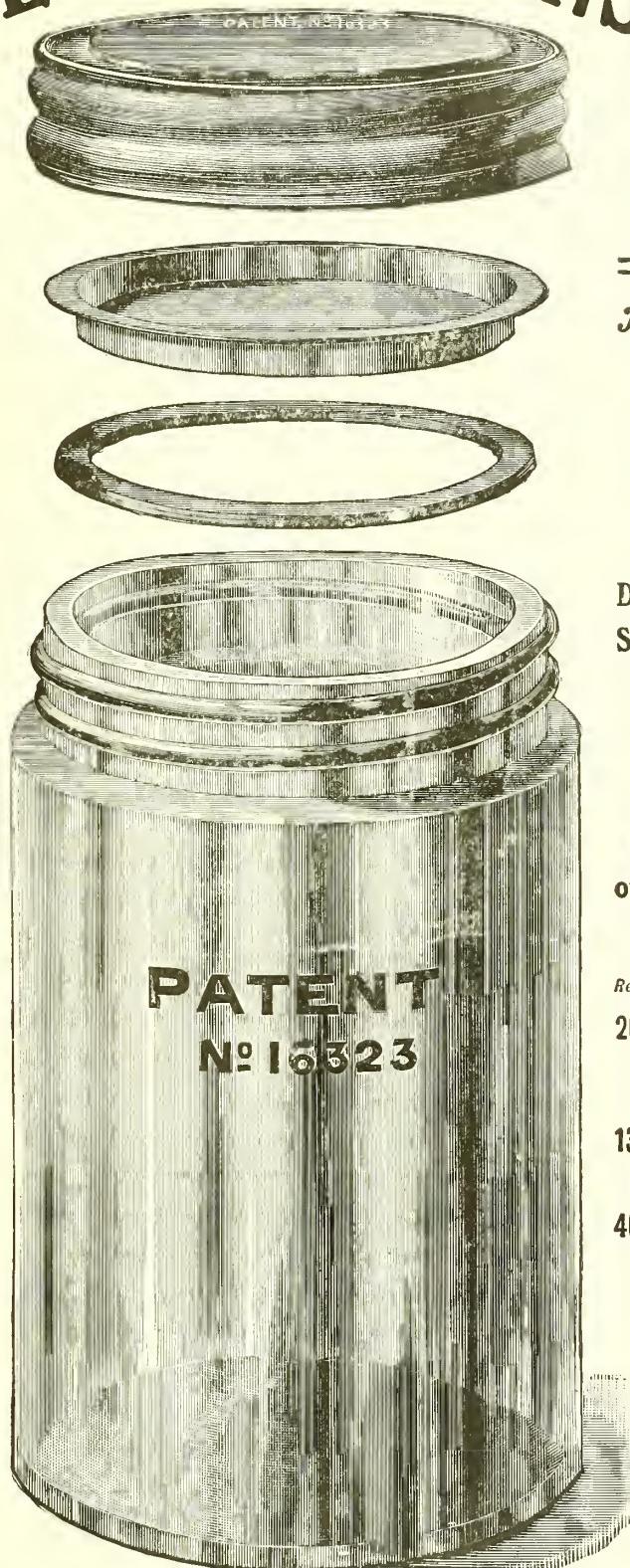
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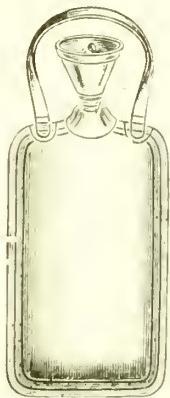
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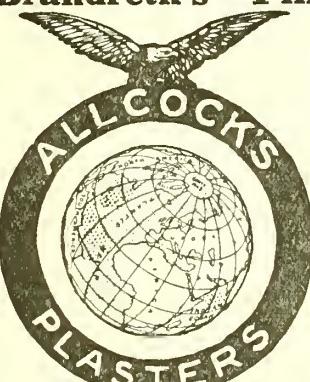
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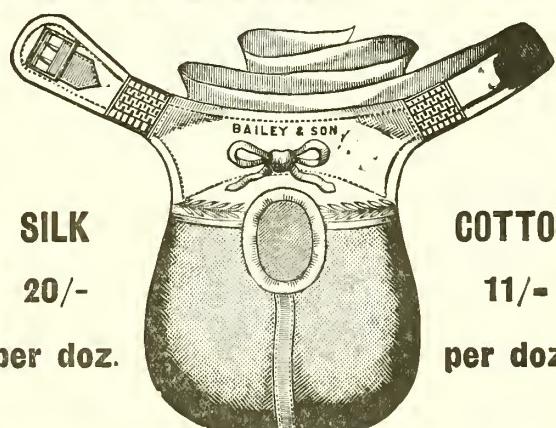
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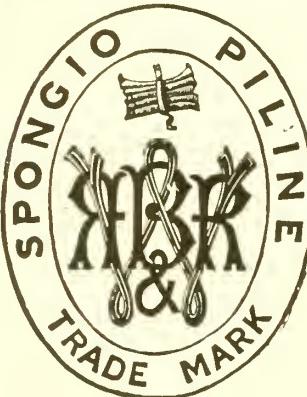
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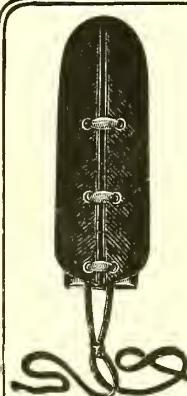
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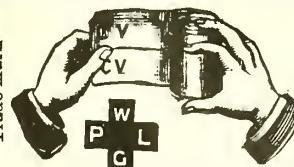
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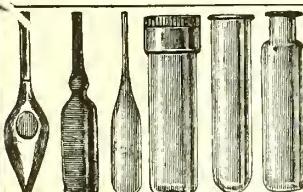
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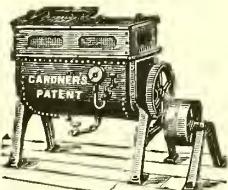
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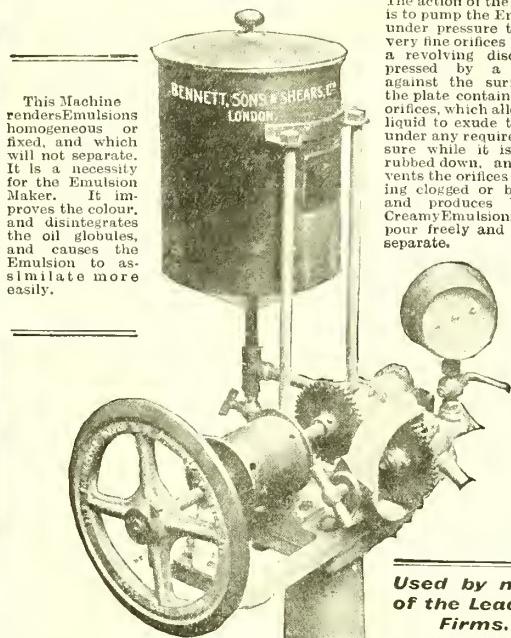
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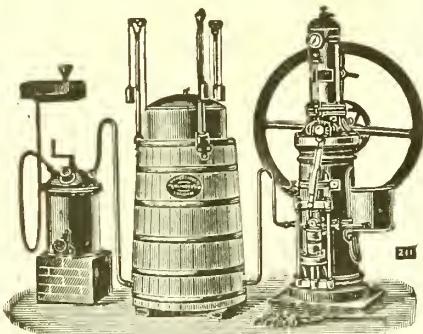
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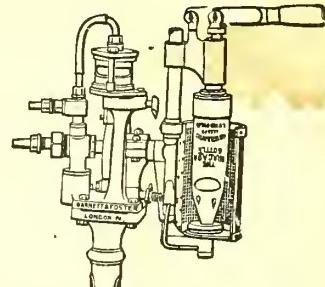
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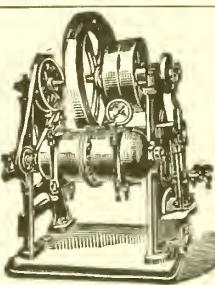
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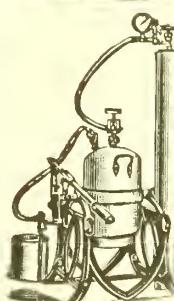
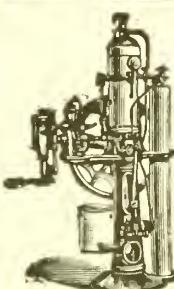
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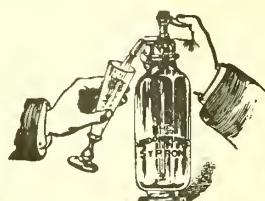
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